

Data Path : Z:\HPCHEM1\BNA F\DATA\BF101017\  
 Data File : BF099323.D  
 Acq On : 11 Oct 2017 2:05  
 Operator : SJ/JU  
 Sample : I5748-04 5X  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :

Quant Time: Oct 11 03:09:16 2017  
 Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Thu Oct 05 17:20:48 2017  
 Response via : Initial Calibration

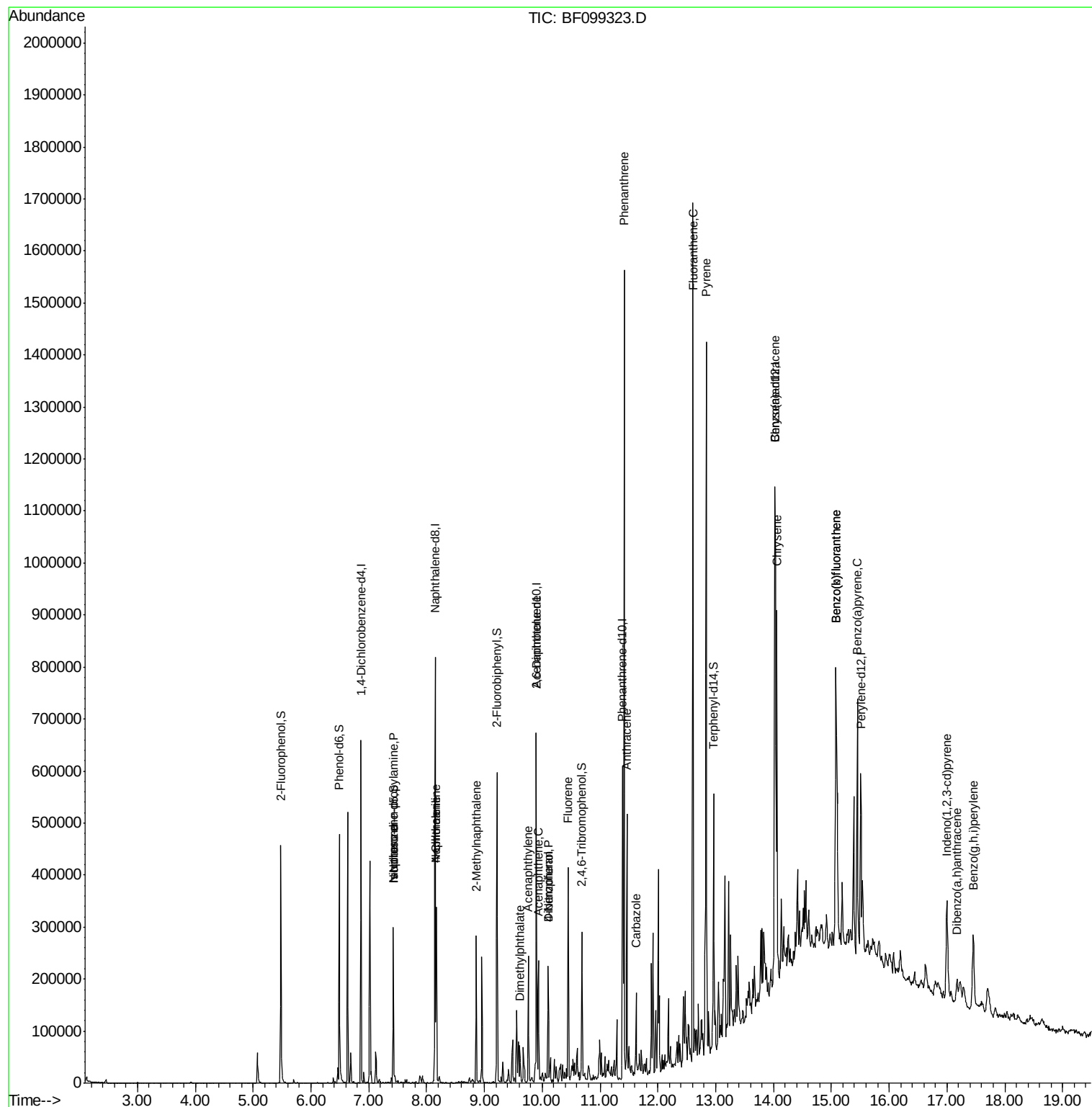
| Internal Standards             | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|--------------------------------|-------|------|----------|-------|-------|----------|
| 1) 1,4-Dichlorobenzene-d4      | 6.86  | 152  | 90618    | 20.00 | ng    | 0.00     |
| 21) Naphthalene-d8             | 8.15  | 136  | 336270   | 20.00 | ng    | 0.00     |
| 38) Acenaphthene-d10           | 9.90  | 164  | 130967   | 20.00 | ng    | 0.00     |
| 63) Phenanthrene-d10           | 11.39 | 188  | 215836   | 20.00 | ng    | 0.00     |
| 75) Chrysene-d12               | 14.03 | 240  | 180700   | 20.00 | ng    | 0.00     |
| 86) Perylene-d12               | 15.51 | 264  | 137264   | 20.00 | ng    | 0.00     |
| System Monitoring Compounds    |       |      |          |       |       |          |
| 5) 2-Fluorophenol              | 5.47  | 112  | 146081   | 25.66 | ng    | 0.00     |
| 7) Phenol-d6                   | 6.49  | 99   | 169240   | 24.10 | ng    | -0.01    |
| 23) Nitrobenzene-d5            | 7.42  | 82   | 88310    | 16.84 | ng    | -0.01    |
| 41) 2,4,6-Tribromophenol       | 10.69 | 330  | 24357    | 22.73 | ng    | -0.01    |
| 44) 2-Fluorobiphenyl           | 9.22  | 172  | 168407   | 21.47 | ng    | -0.01    |
| 78) Terphenyl-d14              | 12.97 | 244  | 138612   | 17.45 | ng    | 0.00     |
| Target Compounds               |       |      |          |       |       | Qvalue   |
| 19) n-Nitroso-di-n-propylamine | 7.42  | 70   | 10854    | 2.42  | ng    | # 77     |
| 25) Isophorone                 | 7.42  | 82   | 88309    | 8.15  | ng    | # 64     |
| 31) Naphthalene                | 8.17  | 128  | 149877   | 9.49  | ng    | # 98     |
| 33) 4-Chloroaniline            | 8.17  | 127  | 19465    | 2.95  | ng    | # 33     |
| 37) 2-Methylnaphthalene        | 8.86  | 142  | 71225    | 6.94  | ng    | # 97     |
| 48) Acenaphthylene             | 9.76  | 152  | 90428    | 6.99  | ng    | # 99     |
| 49) Dimethylphthalate          | 9.61  | 163  | 24570    | 2.49  | ng    | # 98     |
| 50) 2,6-Dinitrotoluene         | 9.90  | 165  | 18884    | 8.78  | ng    | # 25     |
| 51) Acenaphthene               | 9.93  | 154  | 45845    | 5.59  | ng    | # 99     |
| 54) Dibenzofuran               | 10.10 | 168  | 73549    | 6.74  | ng    | # 97     |
| 55) 4-Nitrophenol              | 10.10 | 139  | 27073    | 12.76 | ng    | # 10     |
| 57) Fluorene                   | 10.45 | 166  | 115583   | 13.18 | ng    | # 95     |
| 70) Phenanthrene               | 11.42 | 178  | 551868   | 47.77 | ng    | # 99     |
| 71) Anthracene                 | 11.46 | 178  | 177054   | 14.98 | ng    | # 98     |
| 72) Carbazole                  | 11.62 | 167  | 61552    | 5.32  | ng    | # 97     |
| 74) Fluoranthene               | 12.60 | 202  | 629846   | 53.84 | ng    | # 99     |
| 77) Pyrene                     | 12.83 | 202  | 587933   | 42.67 | ng    | # 100    |
| 80) Benzo(a)anthracene         | 14.02 | 228  | 316172   | 28.90 | ng    | # 97     |
| 82) Chrysene                   | 14.06 | 228  | 256364   | 24.61 | ng    | # 98     |
| 85) Indeno(1,2,3-cd)pyrene     | 17.00 | 276  | 111355   | 13.36 | ng    | # 98     |
| 87) Benzo(b)fluoranthene       | 15.08 | 252  | 403340   | 47.79 | ng    | # 93     |
| 88) Benzo(k)fluoranthene       | 15.08 | 252  | 403340   | 48.39 | ng    | # 96     |
| 89) Benzo(a)pyrene             | 15.45 | 252  | 215671   | 27.84 | ng    | # 95     |
| 90) Dibenzo(a,h)anthracene     | 17.17 | 278  | 24205    | 3.90  | ng    | # 93     |
| 91) Benzo(g,h,i)perylene       | 17.46 | 276  | 106299   | 17.35 | ng    | # 92     |

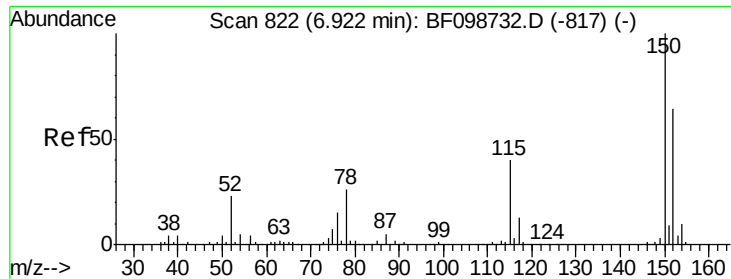
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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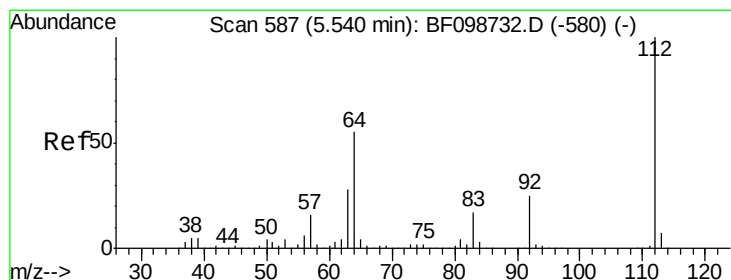
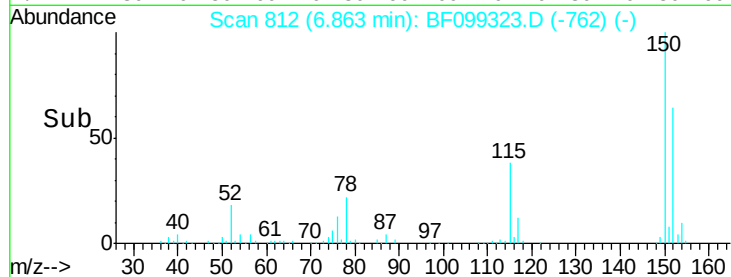
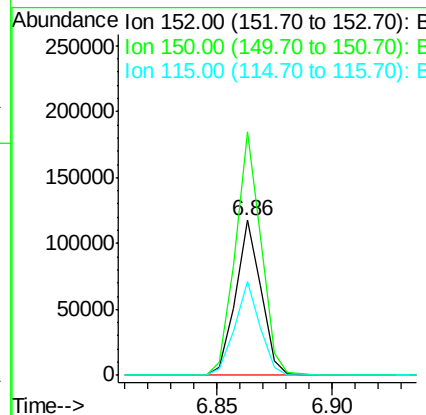
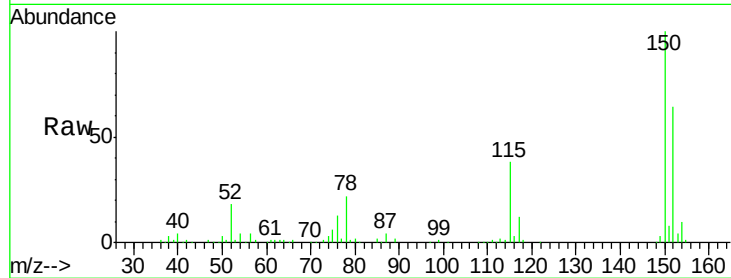


#1

1,4-Dichlorobenzene-d4  
 Concen: 20.00 ng  
 RT: 6.86 min Scan# 812  
 Delta R.T. -0.01 min  
 Lab File: BF099323.D  
 Acq: 11 Oct 2017 2:05

Instrument :  
 BNA\_F  
 ClientSampled :

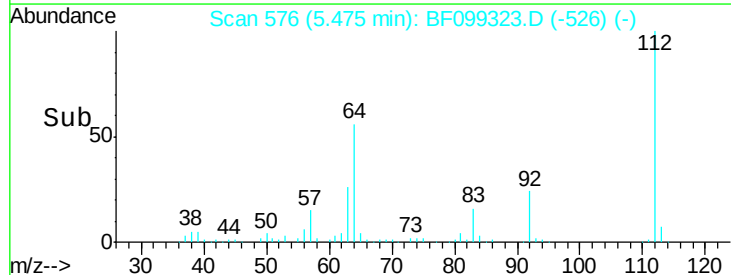
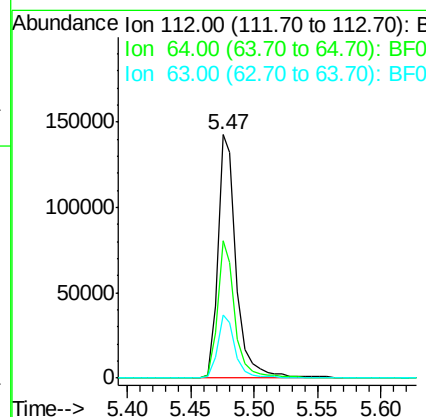
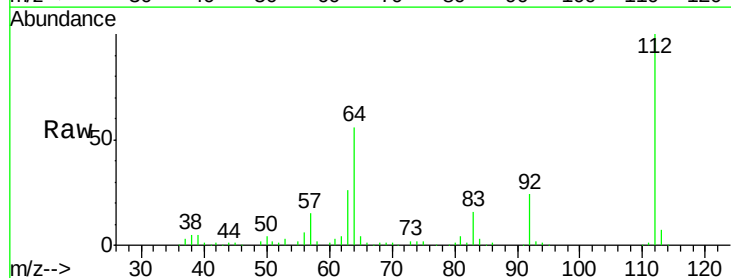
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 156.9 | 124.6 | 186.8 |
| 115     | 60.2  | 50.1  | 75.1  |

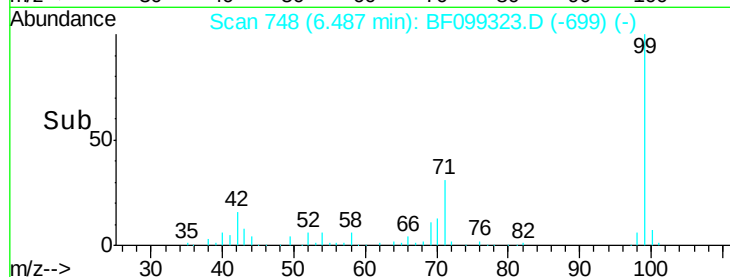
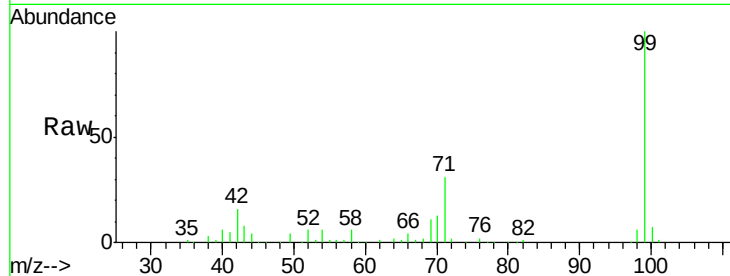
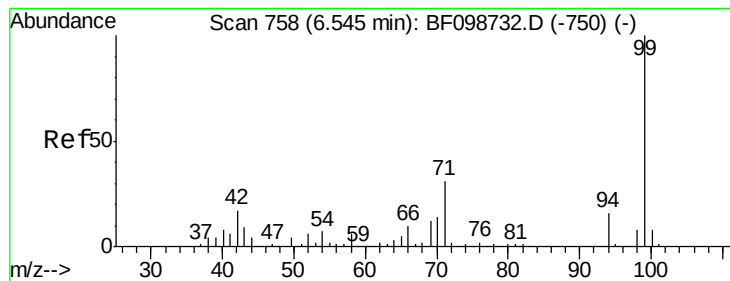


#5

2-Fluorophenol  
 Concen: 25.66 ng  
 RT: 5.47 min Scan# 576  
 Delta R.T. -0.01 min  
 Lab File: BF099323.D  
 Acq: 11 Oct 2017 2:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 56.4  | 47.9  | 71.9  |
| 63      | 26.0  | 23.7  | 35.5  |





#7

Phenol-d6

Concen: 24.10 ng

RT: 6.49 min Scan# 748

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA\_F

ClientSampled :

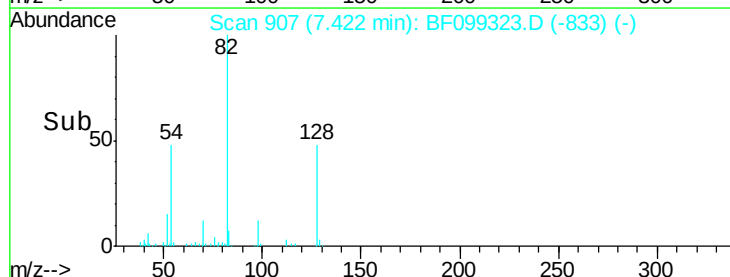
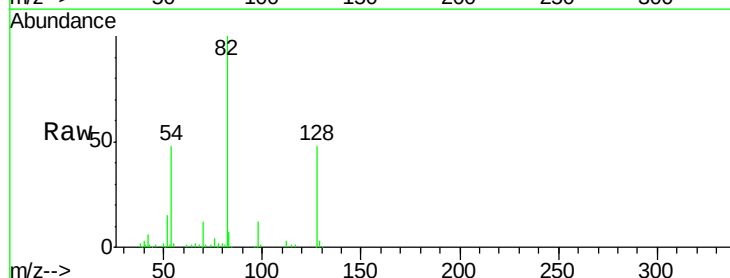
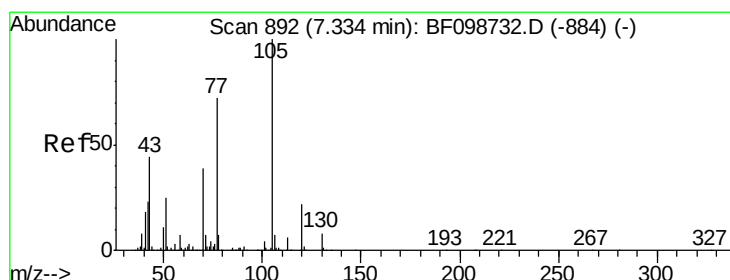
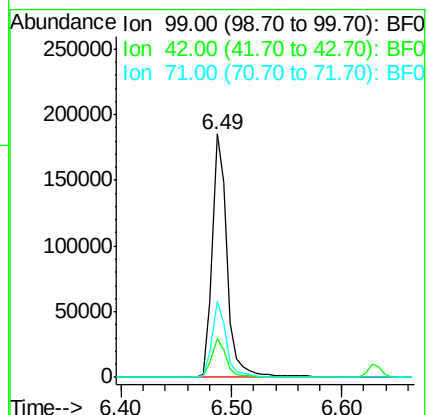
Tot Ion: 99 Resp: 169240

Ion Ratio Lower Upper

99 100

42 15.8 14.5 21.7

71 31.3 25.4 38.0



#19

n-Nitroso-di-n-propylamine

Concen: 2.42 ng

RT: 7.42 min Scan# 907

Delta R.T. 0.14 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Tgt Ion: 70 Resp: 10854

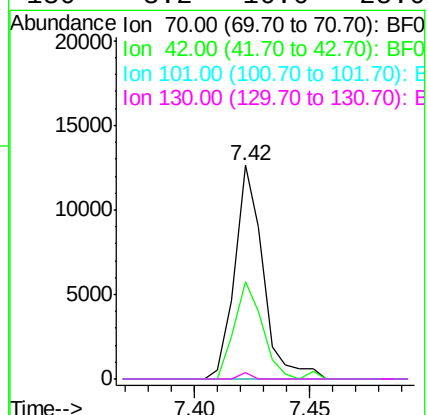
Ion Ratio Lower Upper

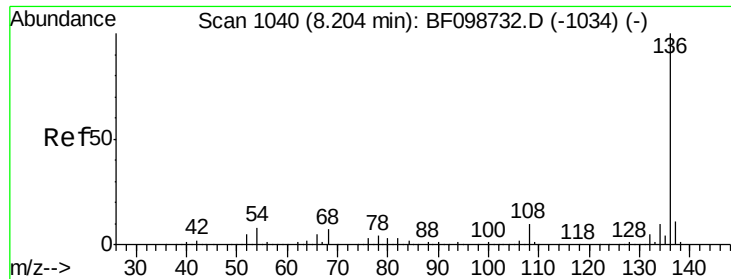
70 100

42 45.7 47.5 71.3#

101 0.0 7.4 11.2#

130 3.2 16.6 25.0#

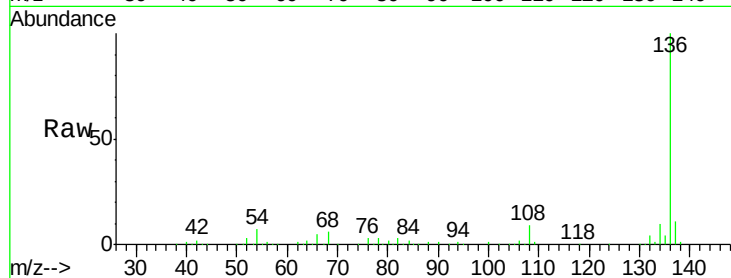




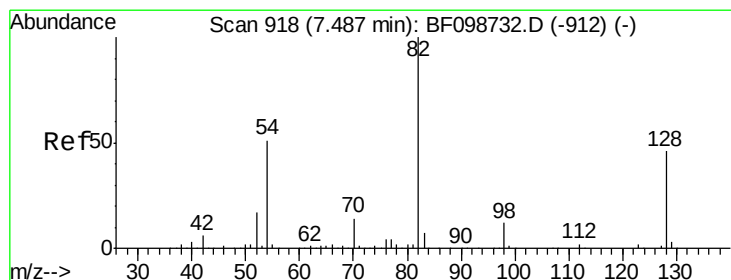
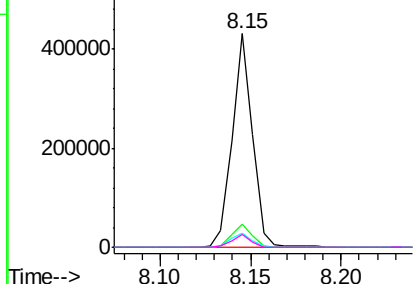
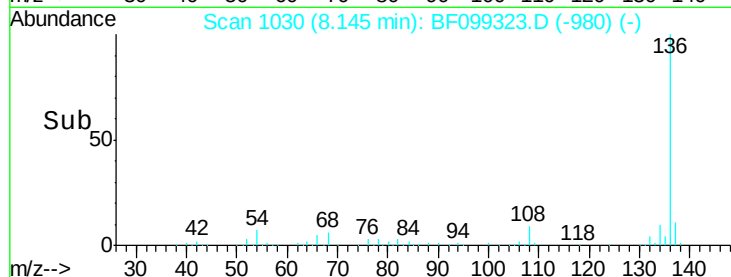
#21  
Naphthalene-d8  
Concen: 20.00 ng  
RT: 8.15 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: BF099323.D  
Acq: 11 Oct 2017 2:05

Instrument :  
BNA\_F  
ClientSampleId :

|             |       |          |
|-------------|-------|----------|
| Tot Ion:136 | Resp: | 336270   |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.0  | 8.9 13.3 |
| 54          | 6.8   | 6.6 9.8  |
| 68          | 5.7   | 5.0 7.4  |

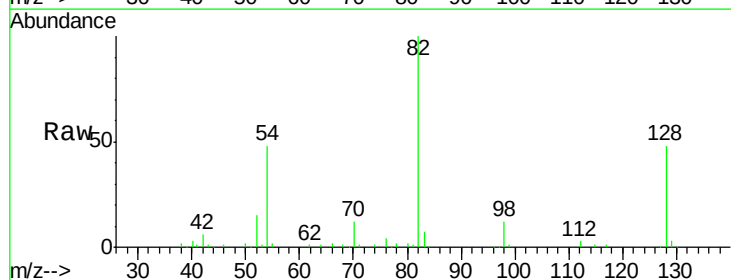


Abundance Ion 136.00 (135.70 to 136.70): E  
Ion 137.00 (136.70 to 137.70): E  
Ion 54.00 (53.70 to 54.70): BF0  
Ion 68.00 (67.70 to 68.70): BF0

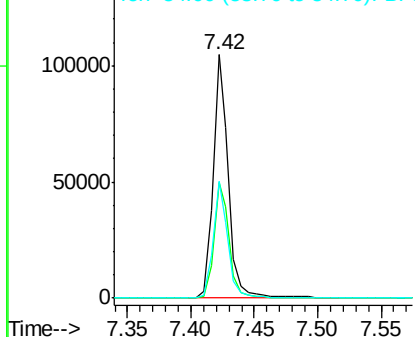
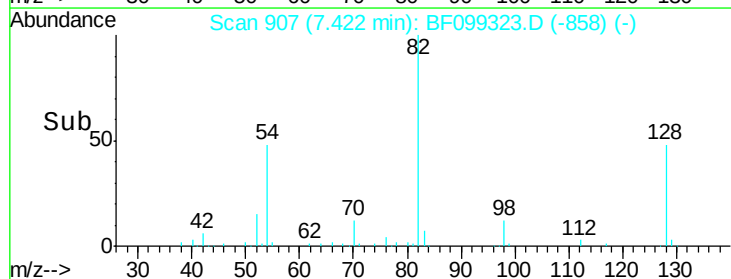


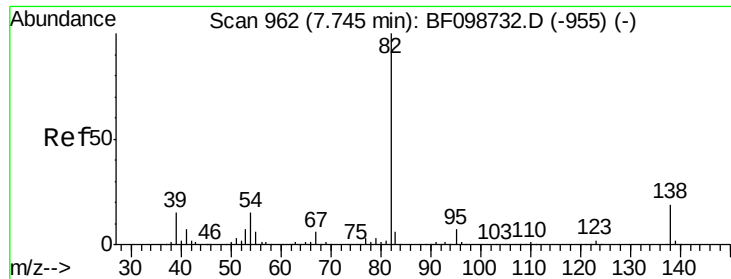
#23  
Nitrobenzene-d5  
Concen: 16.84 ng  
RT: 7.42 min Scan# 907  
Delta R.T. -0.01 min  
Lab File: BF099323.D  
Acq: 11 Oct 2017 2:05

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 88310     |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 47.6  | 36.1 54.1 |
| 54          | 47.9  | 41.4 62.2 |



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 128.00 (127.70 to 128.70): E  
Ion 54.00 (53.70 to 54.70): BF0





#25

Isophorone

Concen: 8.15 ng

RT: 7.42 min Scan# 907

Delta R.T. -0.27 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

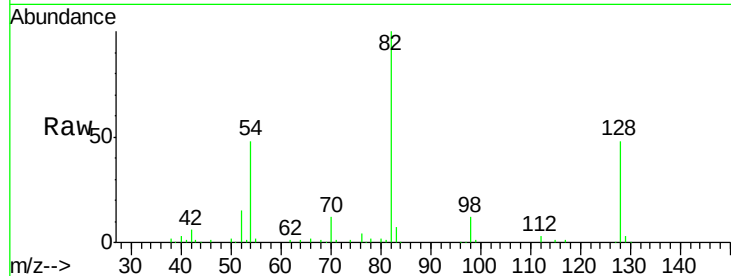
Tot Ion: 82 Resp: 88309

Ion Ratio Lower Upper

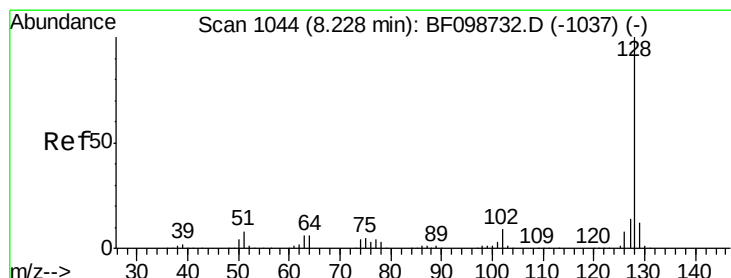
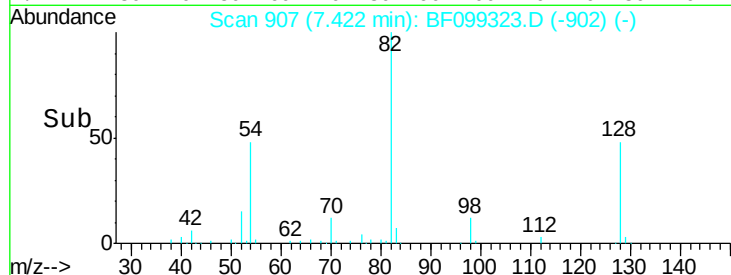
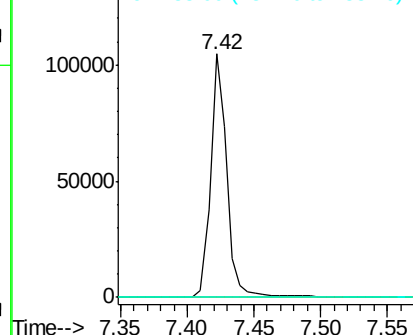
82 100

95 0.0 5.2 7.8#

138 0.0 14.9 22.3#



Abundance Ion 82.00 (81.70 to 82.70): BF0  
Ion 95.00 (94.70 to 95.70): BF0  
Ion 138.00 (137.70 to 138.70): E



#31

Naphthalene

Concen: 9.49 ng

RT: 8.17 min Scan# 1034

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

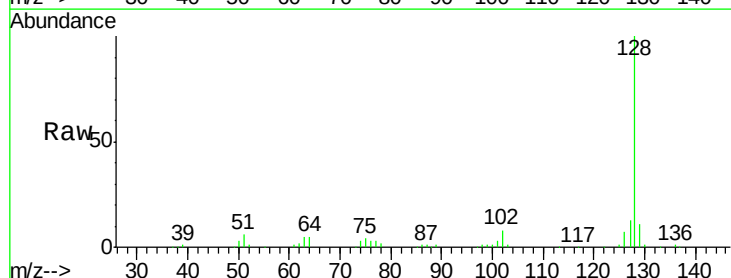
Tgt Ion: 128 Resp: 149877

Ion Ratio Lower Upper

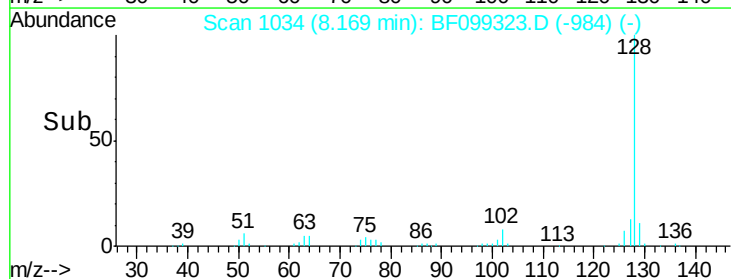
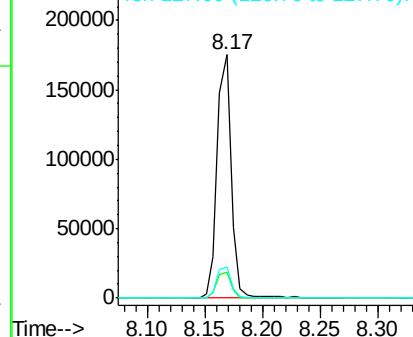
128 100

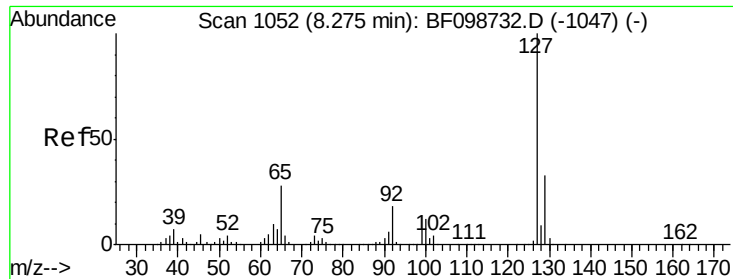
129 10.7 8.8 13.2

127 12.7 10.9 16.3



Abundance Ion 128.00 (127.70 to 128.70): E  
Ion 129.00 (128.70 to 129.70): E  
Ion 127.00 (126.70 to 127.70): E

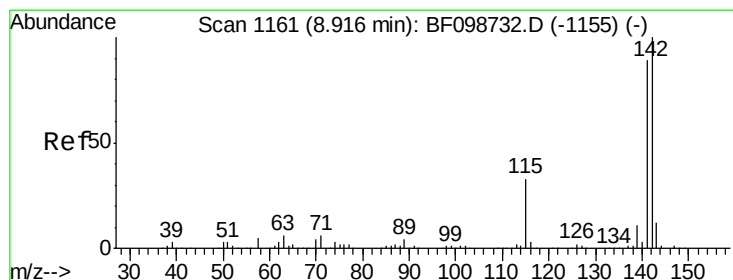
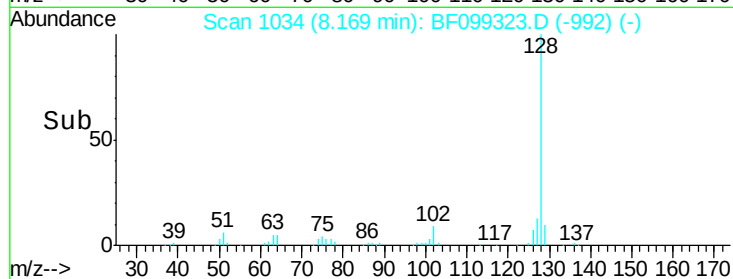
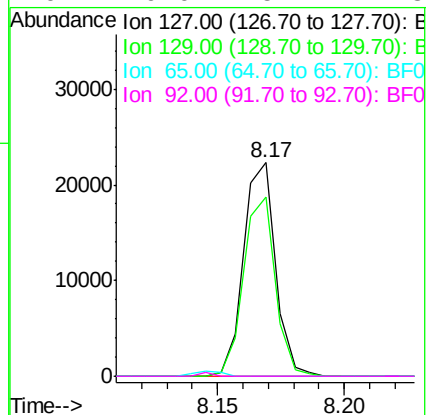
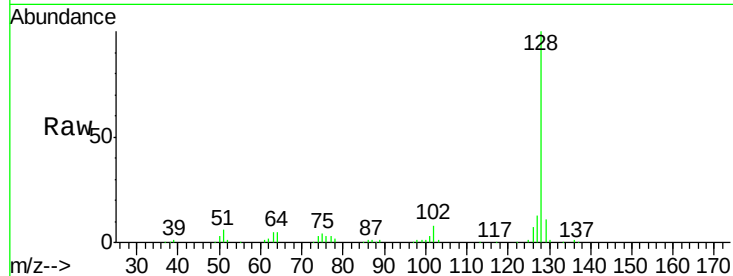




#33  
4-Chloroaniline  
Concen: 2.95 ng  
RT: 8.17 min Scan# 1034  
Delta R.T. -0.05 min  
Lab File: BF099323.D  
Acq: 11 Oct 2017 2:05

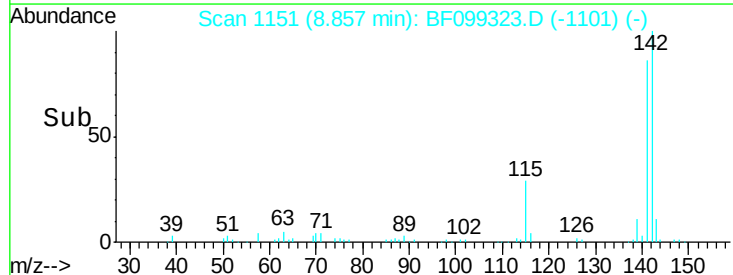
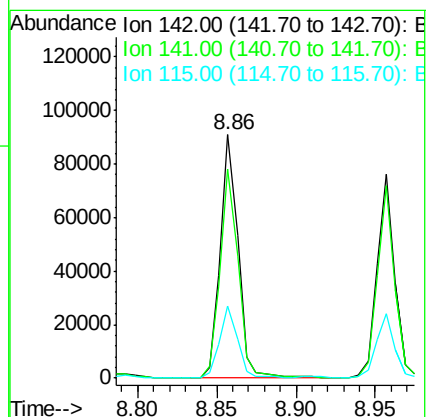
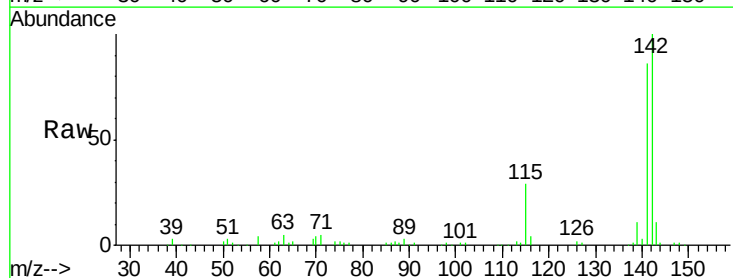
Instrument :  
BNA\_F  
ClientSampleId :

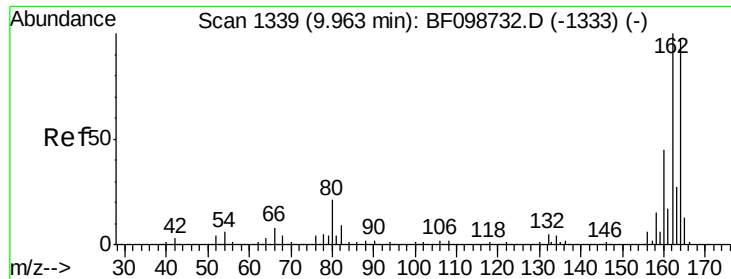
Tot Ion:127 Resp: 19465  
Ion Ratio Lower Upper  
127 100  
129 83.8 25.9 38.9#  
65 0.0 25.0 37.4#  
92 0.0 15.2 22.8#



#37  
2-Methylnaphthalene  
Concen: 6.94 ng  
RT: 8.86 min Scan# 1151  
Delta R.T. -0.01 min  
Lab File: BF099323.D  
Acq: 11 Oct 2017 2:05

Tgt Ion:142 Resp: 71225  
Ion Ratio Lower Upper  
142 100  
141 86.0 70.8 106.2  
115 29.4 26.1 39.1





#38

Acenaphthene-d10

Concen: 20.00 ng

RT: 9.90 min Scan# 1328

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

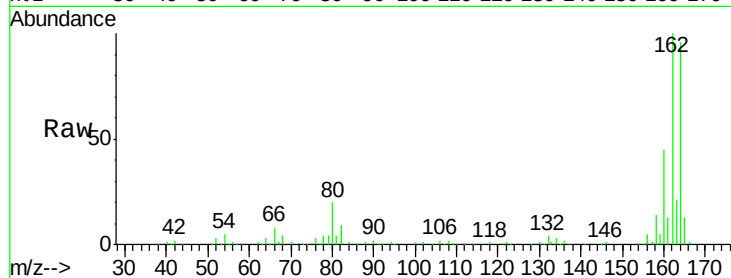
Tot Ion:164 Resp: 130967

Ion Ratio Lower Upper

164 100

162 104.5 86.1 129.1

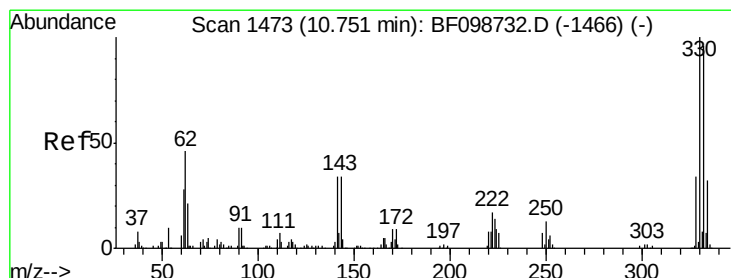
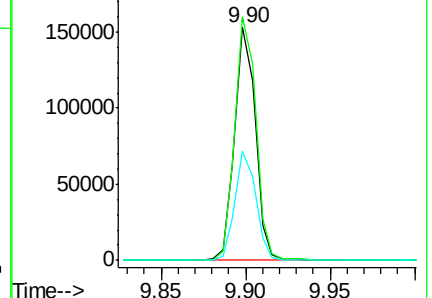
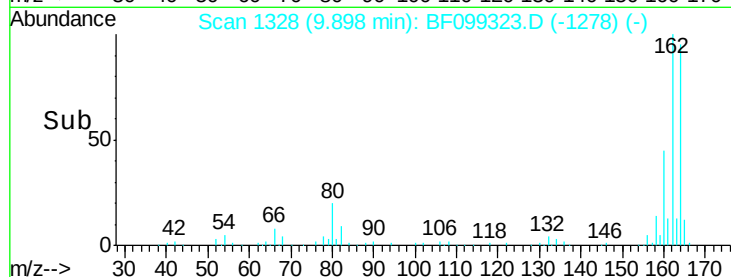
160 46.9 38.3 57.5



Abundance Ion 164.00 (163.70 to 164.70): E

Ion 162.00 (161.70 to 162.70): E

Ion 160.00 (159.70 to 160.70): E



#41

2,4,6-Tribromophenol

Concen: 22.73 ng

RT: 10.69 min Scan# 1462

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

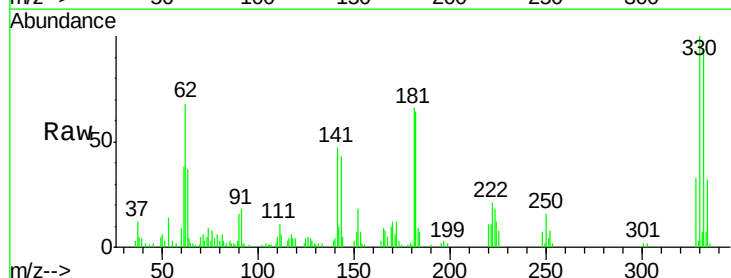
Tgt Ion:330 Resp: 24357

Ion Ratio Lower Upper

330 100

332 98.6 77.0 115.6

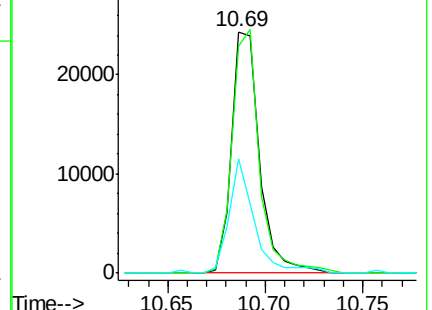
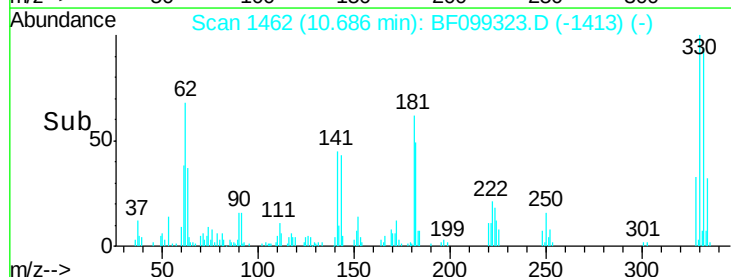
141 42.7 29.9 44.9



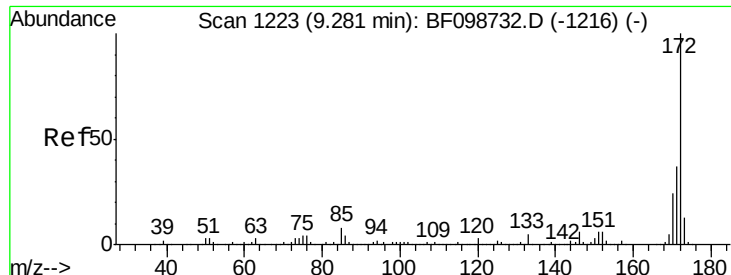
Abundance Ion 329.80 (329.50 to 330.50): E

Ion 331.80 (331.50 to 332.50): E

Ion 141.00 (140.70 to 141.70): E



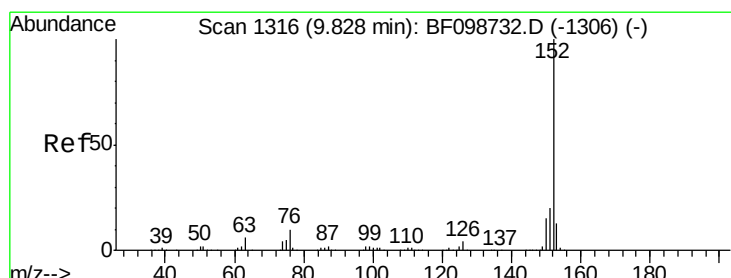
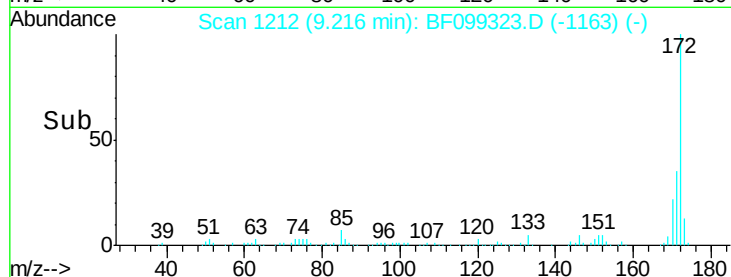
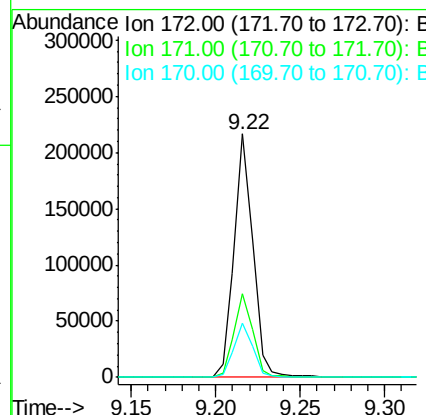
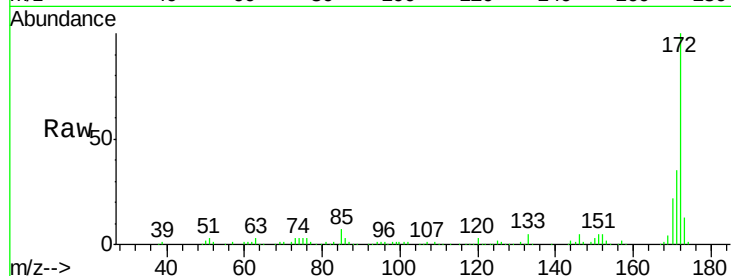




#44  
2-Fluorobiphenyl  
Concen: 21.47 ng  
RT: 9.22 min Scan# 1212  
Delta R.T. -0.01 min  
Lab File: BF099323.D  
Acq: 11 Oct 2017 2:05

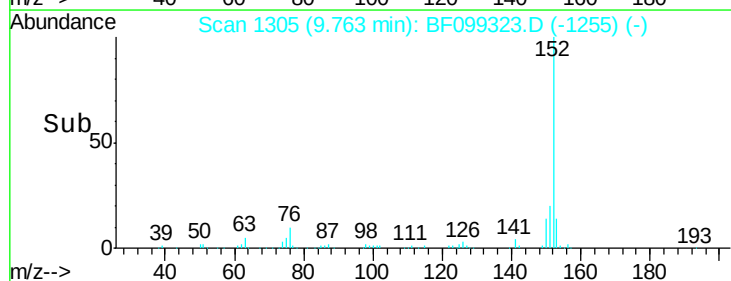
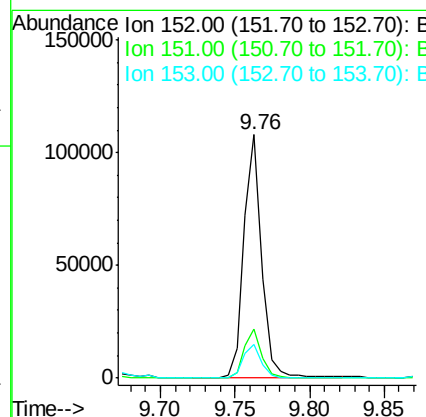
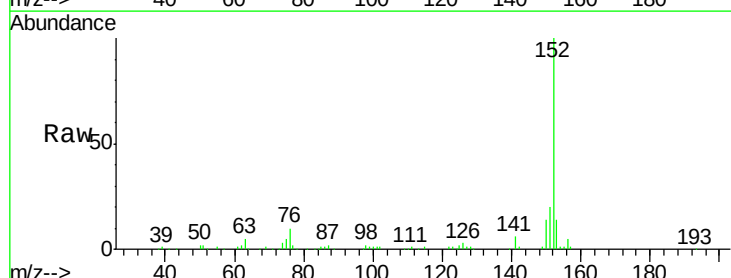
Instrument :  
BNA\_F  
ClientSampleId :

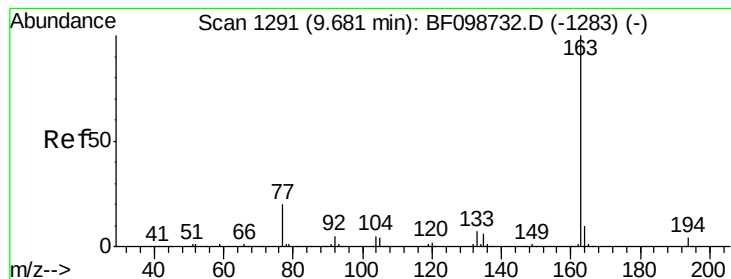
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 34.5  | 29.7  | 44.5  |
| 170     | 22.5  | 19.6  | 29.4  |



#48  
Acenaphthylene  
Concen: 6.99 ng  
RT: 9.76 min Scan# 1305  
Delta R.T. -0.01 min  
Lab File: BF099323.D  
Acq: 11 Oct 2017 2:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.0  | 16.3  | 24.5  |
| 153     | 13.9  | 10.7  | 16.1  |





#49

Dimethylphthalate

Concen: 2.49 ng

RT: 9.61 min Scan# 1279

Delta R.T. -0.02 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

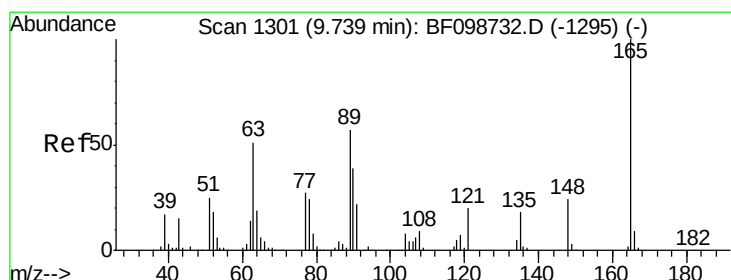
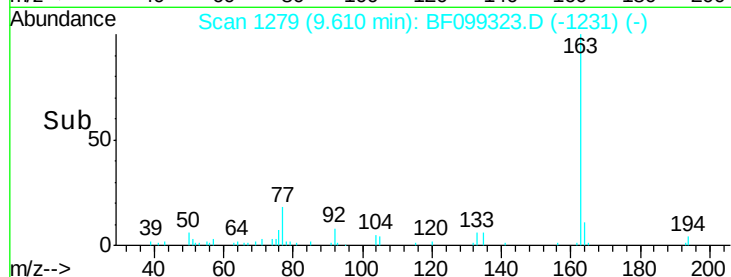
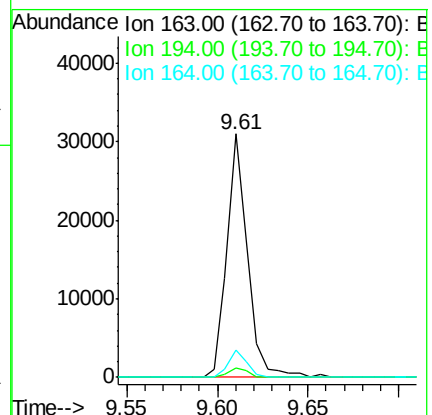
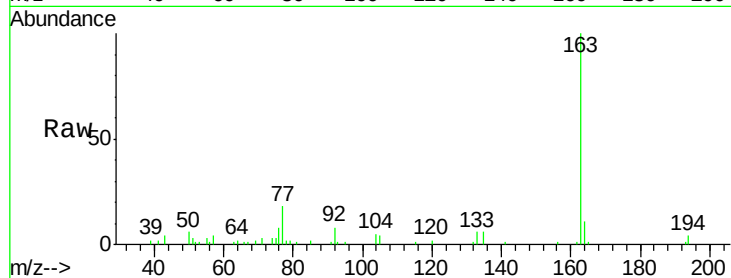
Tot Ion:163 Resp: 24570

Ion Ratio Lower Upper

163 100

194 3.8 2.7 4.1

164 11.1 8.2 12.2



#50

2,6-Dinitrotoluene

Concen: 8.78 ng

RT: 9.90 min Scan# 1328

Delta R.T. 0.21 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

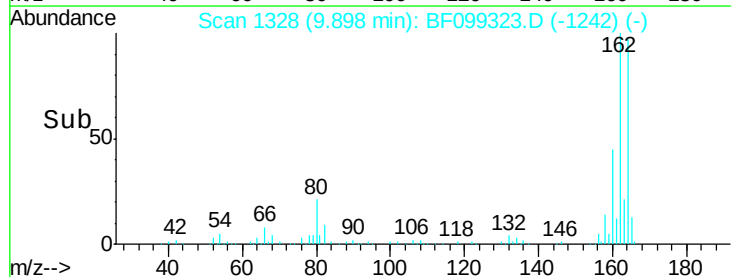
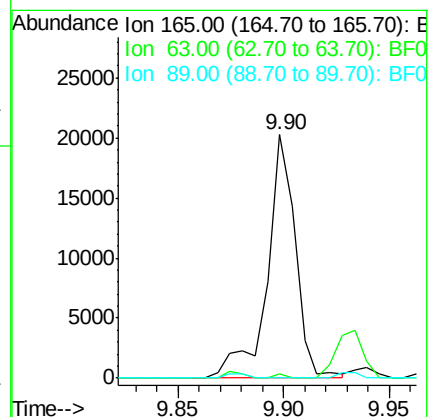
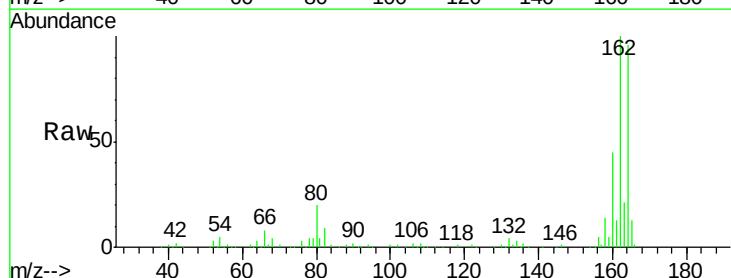
Tgt Ion:165 Resp: 18884

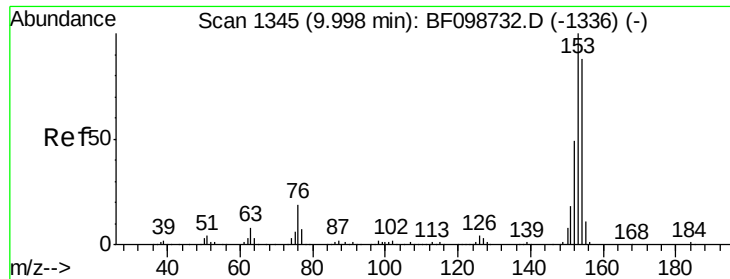
Ion Ratio Lower Upper

165 100

63 1.6 44.7 67.1#

89 0.0 44.0 66.0#





#51

Acenaphthene

Concen: 5.59 ng

RT: 9.93 min Scan# 1334

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

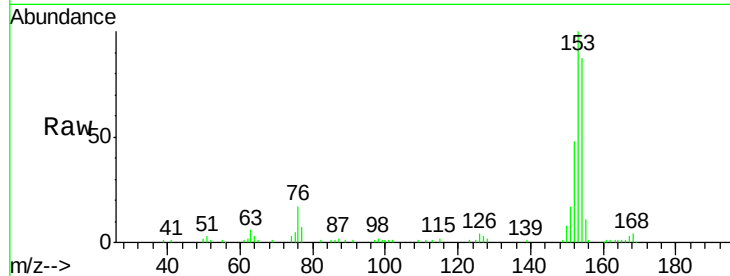
Tot Ion:154 Resp: 45845

Ion Ratio Lower Upper

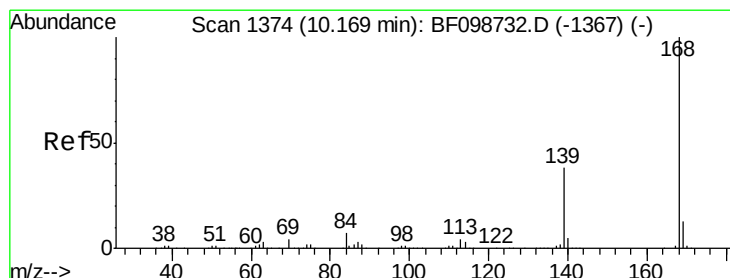
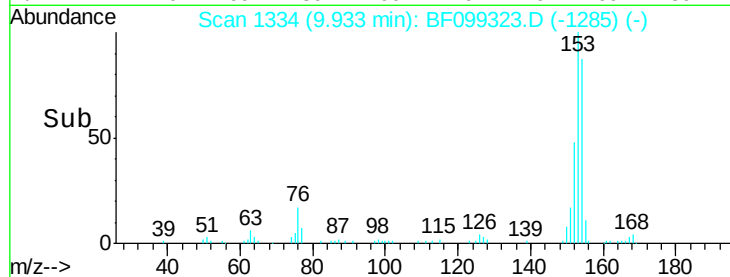
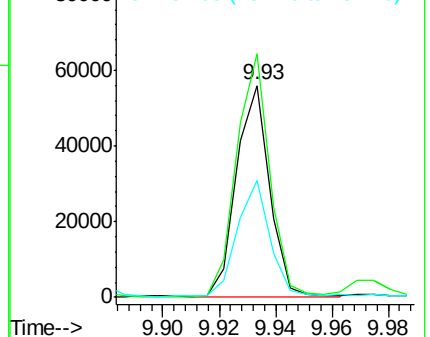
154 100

153 115.0 91.2 136.8

152 55.2 43.8 65.8



Abundance Ion 154.00 (153.70 to 154.70): E  
Ion 153.00 (152.70 to 153.70): E  
Ion 152.00 (151.70 to 152.70): E



#54

Dibenzofuran

Concen: 6.74 ng

RT: 10.10 min Scan# 1363

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

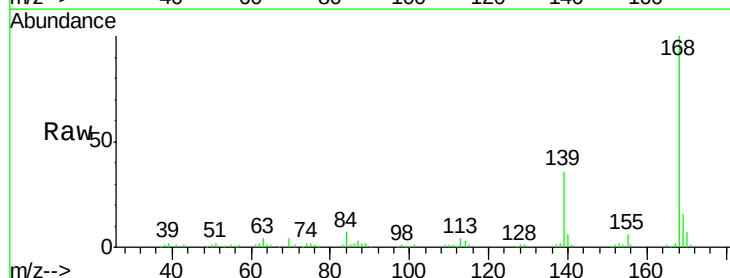
Tgt Ion:168 Resp: 73549

Ion Ratio Lower Upper

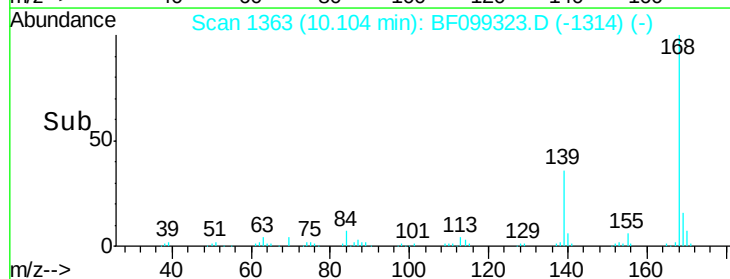
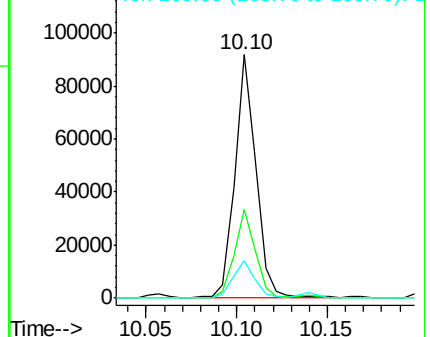
168 100

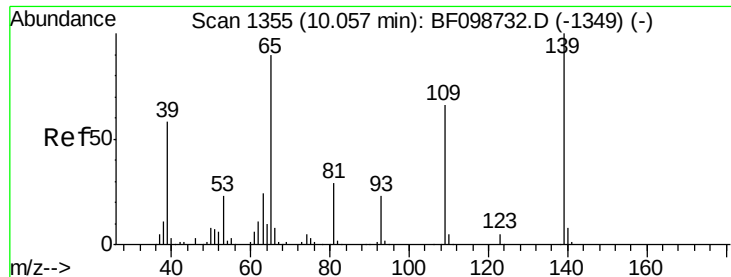
139 36.2 30.1 45.1

169 15.5 10.9 16.3



Abundance Ion 168.00 (167.70 to 168.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 169.00 (168.70 to 169.70): E

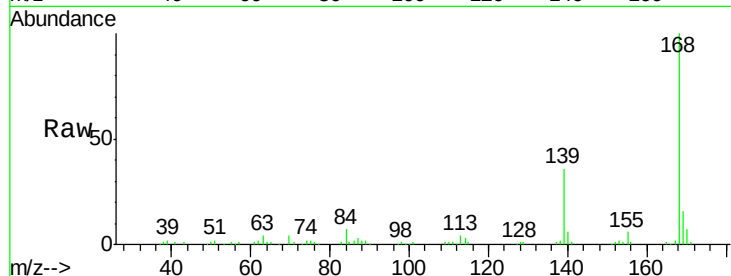




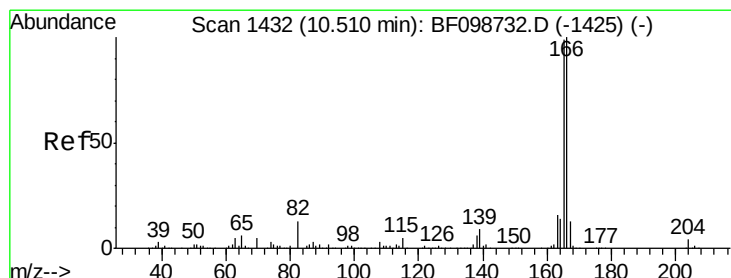
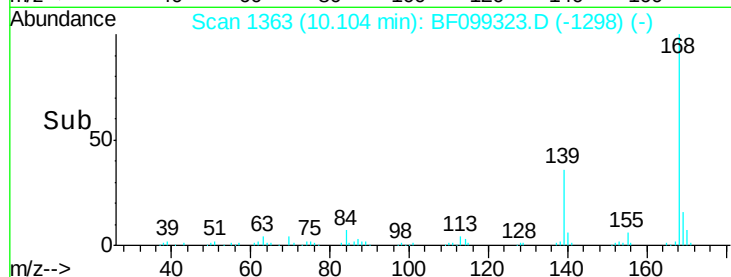
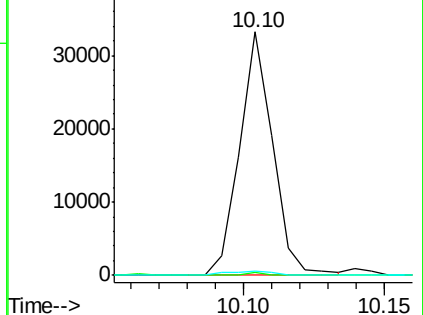
#55  
4-Nitrophenol  
Concen: 12.76 ng  
RT: 10.10 min Scan# 1363  
Delta R.T. 0.08 min  
Lab File: BF099323.D  
Acq: 11 Oct 2017 2:05

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:139 Resp: 27073  
Ion Ratio Lower Upper  
139 100  
109 1.4 48.4 88.4#  
65 1.7 72.6 112.6#

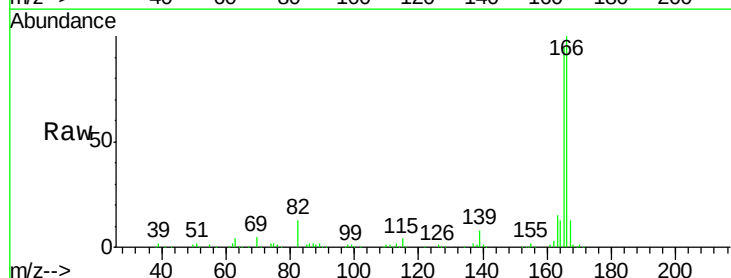


Abundance Ion 139.00 (138.70 to 139.70): E  
Ion 109.00 (108.70 to 109.70): E  
Ion 65.00 (64.70 to 65.70): BF0

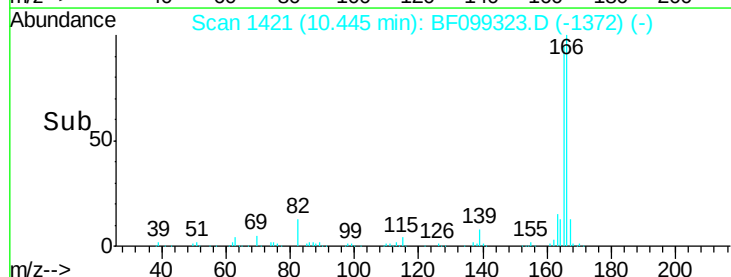
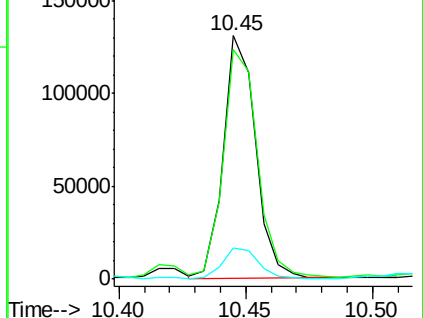


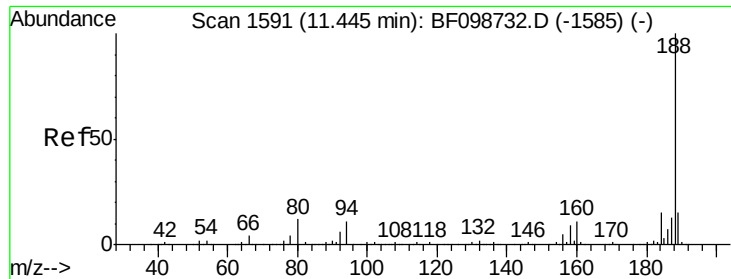
#57  
Fluorene  
Concen: 13.18 ng  
RT: 10.45 min Scan# 1421  
Delta R.T. -0.01 min  
Lab File: BF099323.D  
Acq: 11 Oct 2017 2:05

Tgt Ion:166 Resp: 115583  
Ion Ratio Lower Upper  
166 100  
165 94.5 79.8 119.8  
167 13.0 10.6 16.0



Abundance Ion 166.00 (165.70 to 166.70): E  
Ion 165.00 (164.70 to 165.70): E  
Ion 167.00 (166.70 to 167.70): E

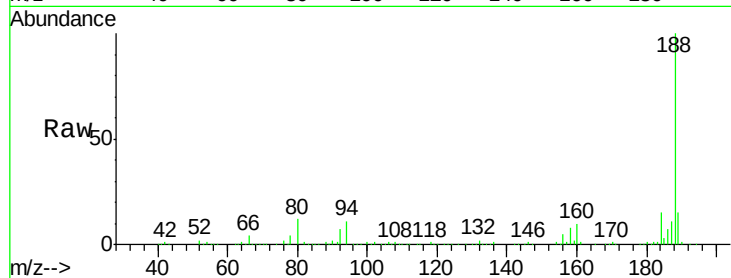




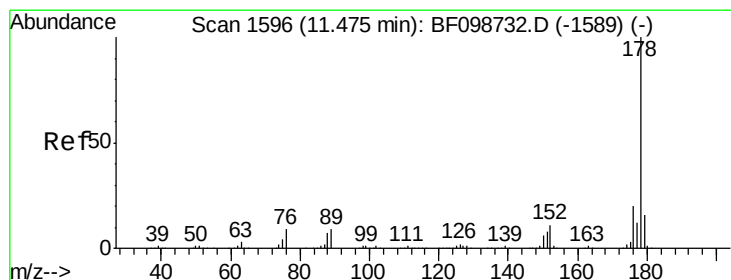
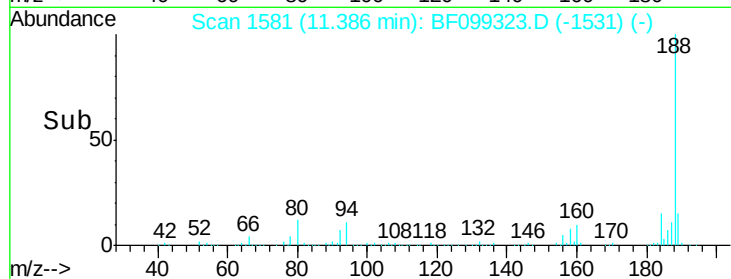
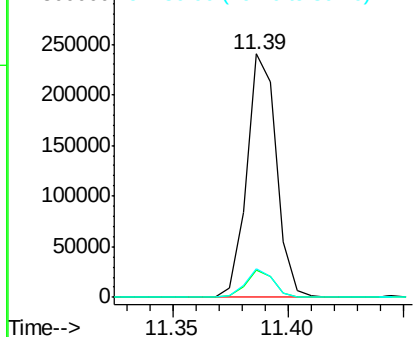
#63  
Phenanthrene-d10  
Concen: 20.00 ng  
RT: 11.39 min Scan# 1581  
Delta R.T. -0.01 min  
Lab File: BF099323.D  
Acq: 11 Oct 2017 2:05

Instrument :  
BNA\_F  
ClientSampleId :

Tot Ion:188 Resp: 215836  
Ion Ratio Lower Upper  
188 100  
94 11.1 8.5 12.7  
80 11.8 9.2 13.8

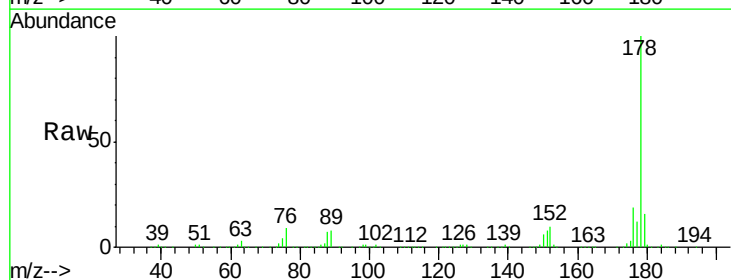


Abundance Ion 188.00 (187.70 to 188.70): E  
Ion 94.00 (93.70 to 94.70): BF0  
Ion 80.00 (79.70 to 80.70): BF0

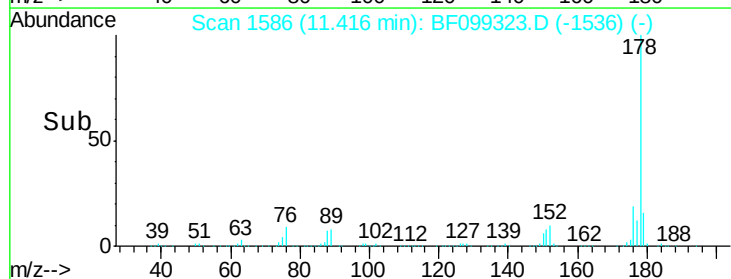
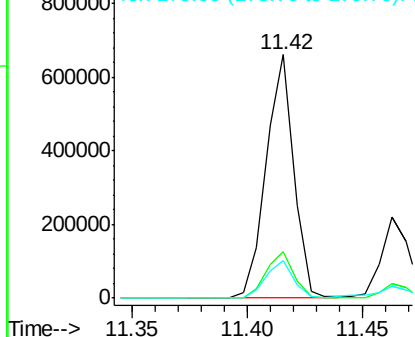


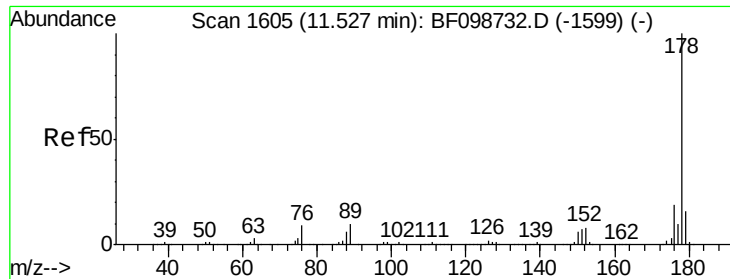
#70  
Phenanthrene  
Concen: 47.77 ng  
RT: 11.42 min Scan# 1586  
Delta R.T. -0.01 min  
Lab File: BF099323.D  
Acq: 11 Oct 2017 2:05

Tgt Ion:178 Resp: 551868  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.8 23.8  
179 15.6 13.0 19.6



Abundance Ion 178.00 (177.70 to 178.70): E  
Ion 176.00 (175.70 to 176.70): E  
Ion 179.00 (178.70 to 179.70): E





#71

Anthracene

Concen: 14.98 ng

RT: 11.46 min Scan# 1594

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

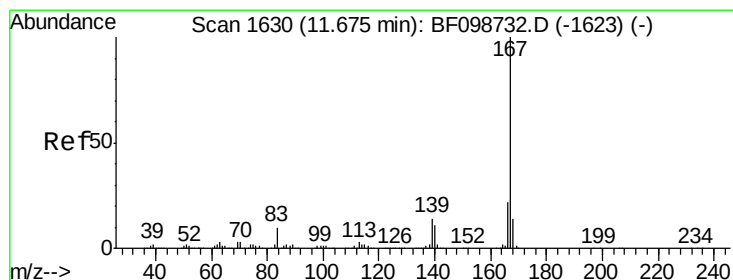
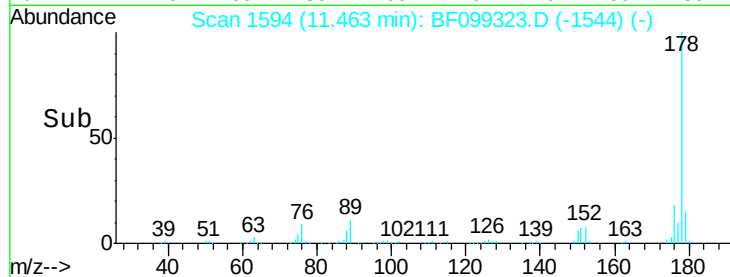
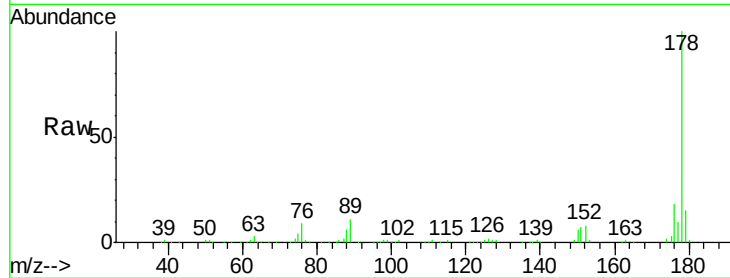
Tot Ion:178 Resp: 177054

Ion Ratio Lower Upper

178 100

176 18.3 15.4 23.2

179 15.4 12.6 19.0



#72

Carbazole

Concen: 5.32 ng

RT: 11.62 min Scan# 1621

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

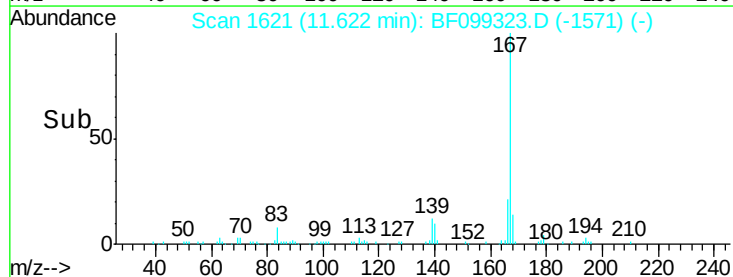
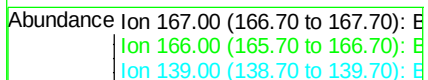
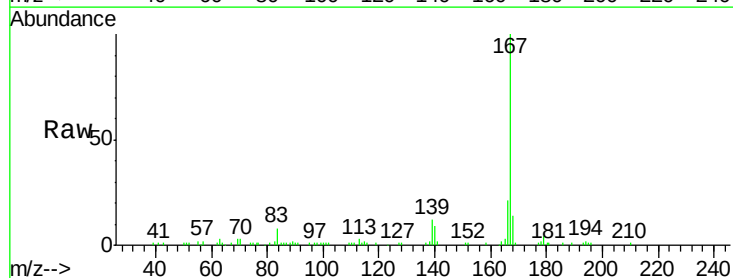
Tgt Ion:167 Resp: 61552

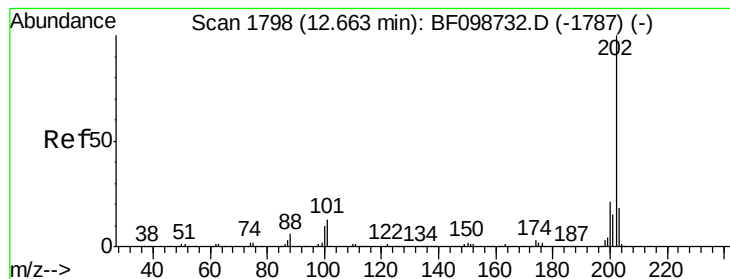
Ion Ratio Lower Upper

167 100

166 20.5 17.6 26.4

139 12.4 10.9 16.3





#74

Fluoranthene

Concen: 53.84 ng

RT: 12.60 min Scan# 1788

Delta R.T. 0.00 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

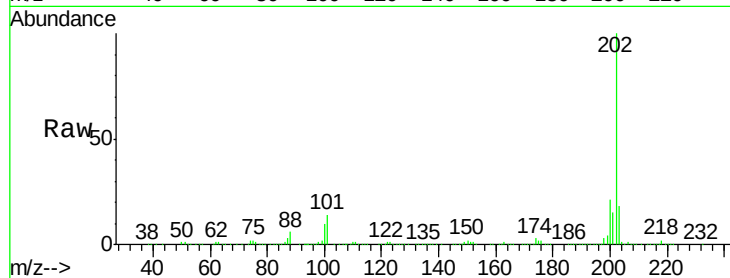
Tot Ion:202 Resp: 629846

Ion Ratio Lower Upper

202 100

101 14.0 0.0 34.1

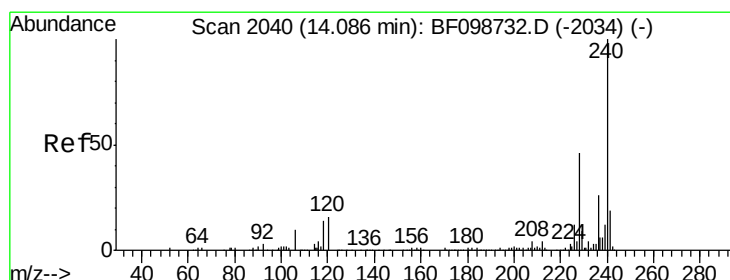
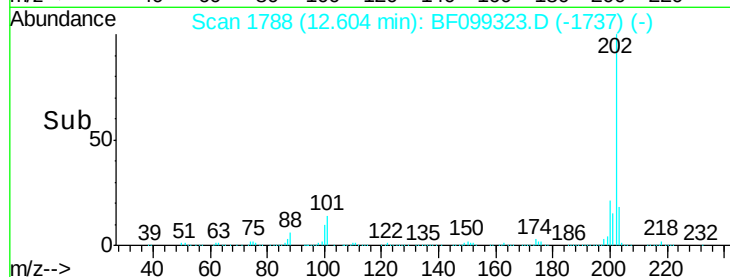
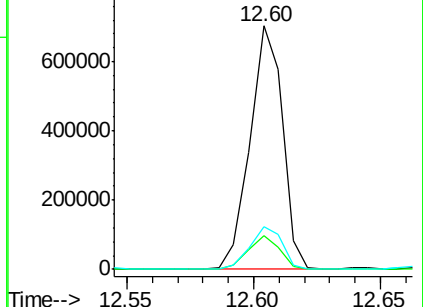
203 17.6 0.0 38.1



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 101.00 (100.70 to 101.70): E

Ion 203.00 (202.70 to 203.70): E



#75

Chrysene-d12

Concen: 20.00 ng

RT: 14.03 min Scan# 2031

Delta R.T. 0.00 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

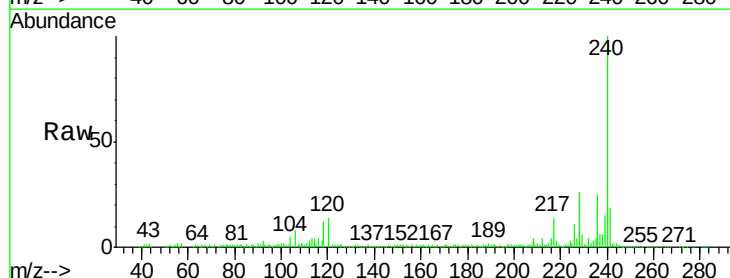
Tgt Ion:240 Resp: 180700

Ion Ratio Lower Upper

240 100

120 13.5 9.5 14.3

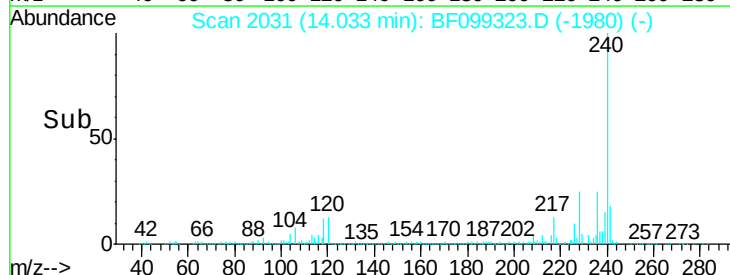
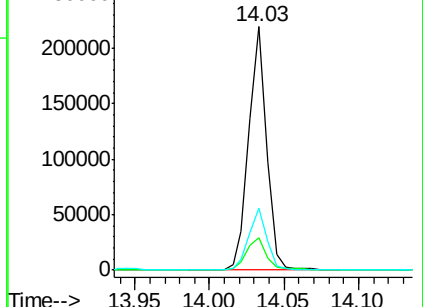
236 25.3 20.7 31.1

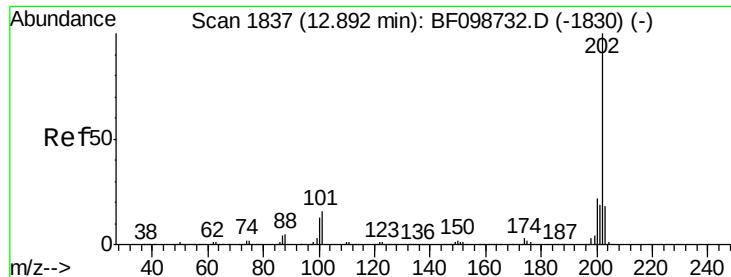


Abundance Ion 240.00 (239.70 to 240.70): E

Ion 120.00 (119.70 to 120.70): E

Ion 236.00 (235.70 to 236.70): E





#77

Pvrene

Concen: 42.67 ng

RT: 12.83 min Scan# 1827

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

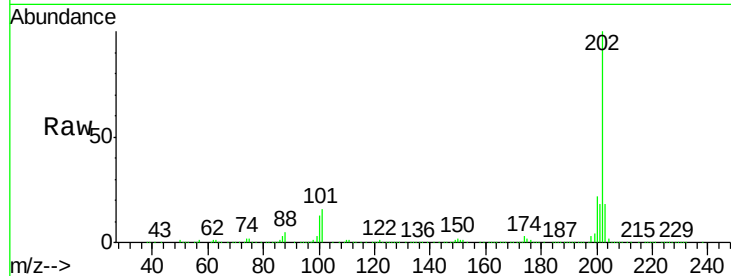
Tot Ion:202 Resp: 587933

Ion Ratio Lower Upper

202 100

200 21.6 17.4 26.2

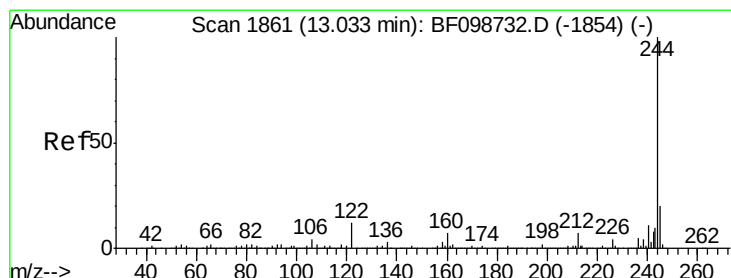
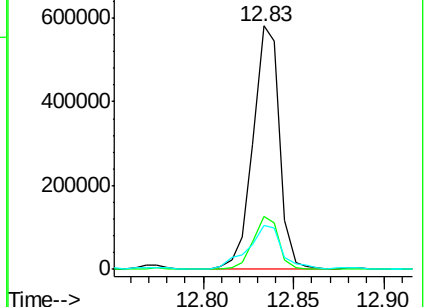
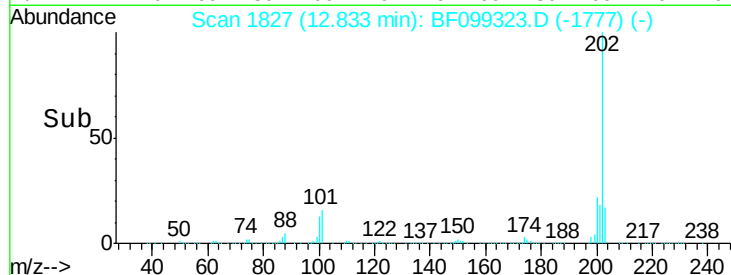
203 18.1 14.3 21.5



Abundance Ion 202.00 (201.70 to 202.70): E

Ion 200.00 (199.70 to 200.70): E

Ion 203.00 (202.70 to 203.70): E



#78

Terphenyl-d14

Concen: 17.45 ng

RT: 12.97 min Scan# 1850

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

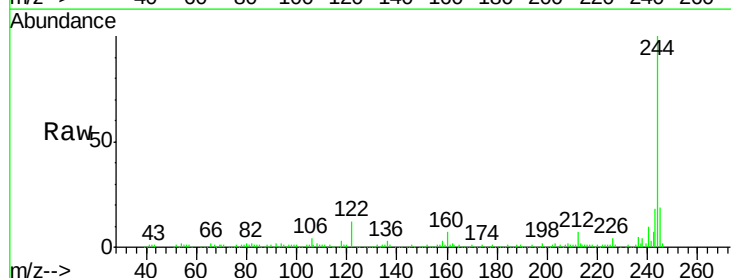
Tgt Ion:244 Resp: 138612

Ion Ratio Lower Upper

244 100

212 6.6 5.4 8.0

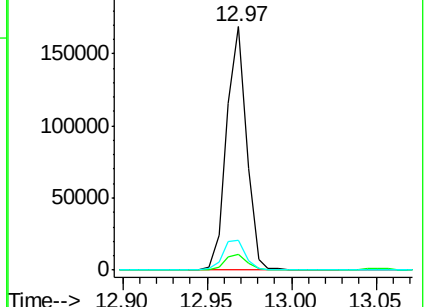
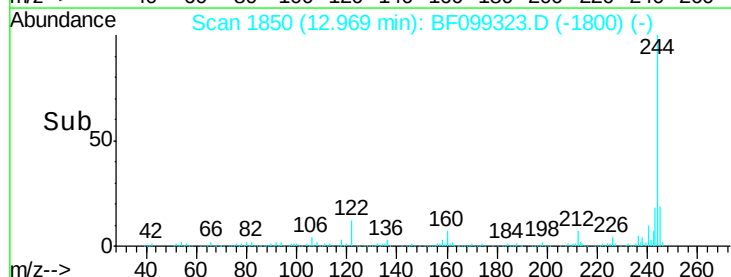
122 12.0 11.0 16.4



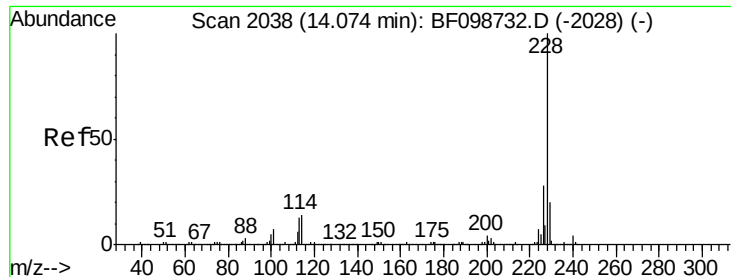
Abundance Ion 244.00 (243.70 to 244.70): E

Ion 212.00 (211.70 to 212.70): E

Ion 122.00 (121.70 to 122.70): E







#80

Benzo(a)anthracene

Concen: 28.90 ng

RT: 14.02 min Scan# 2029

Delta R.T. 0.00 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

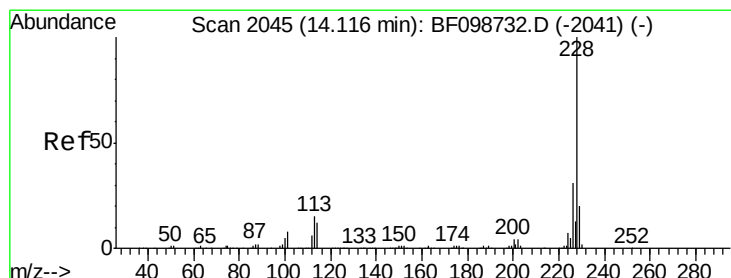
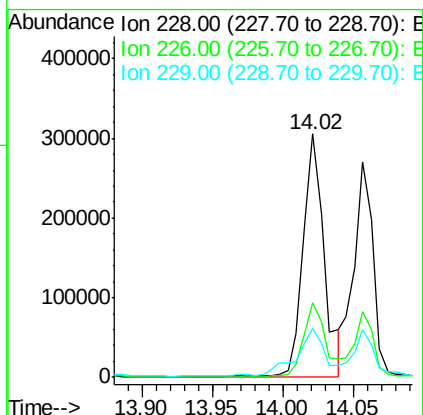
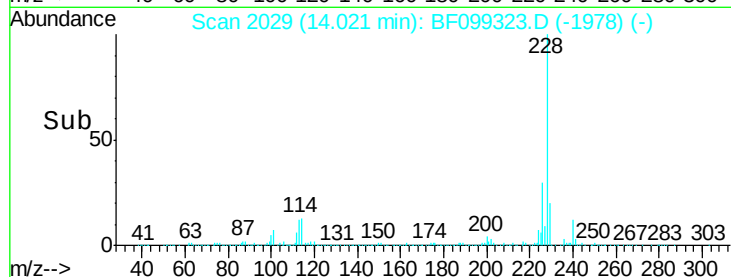
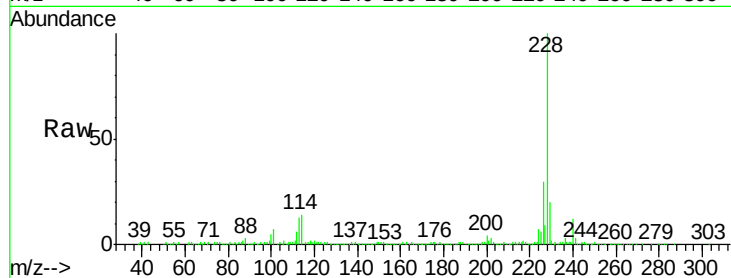
Tot Ion:228 Resp: 316172

Ion Ratio Lower Upper

228 100

226 30.5 22.6 33.8

229 20.2 15.8 23.6



#82

Chrysene

Concen: 24.61 ng

RT: 14.06 min Scan# 2035

Delta R.T. -0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

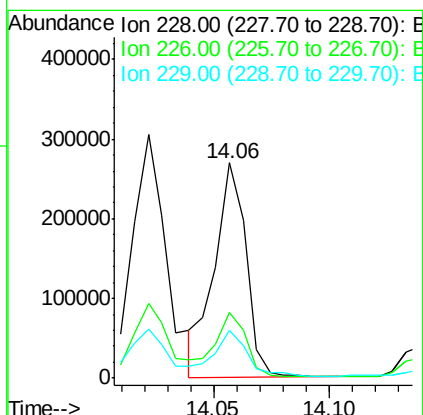
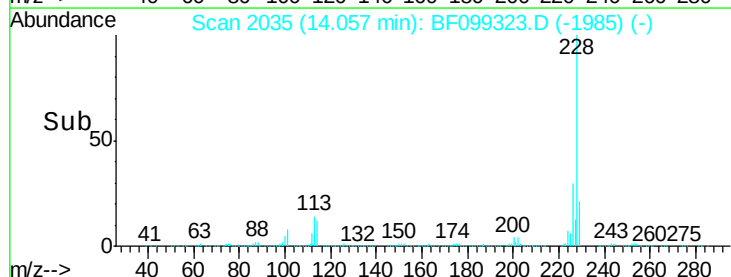
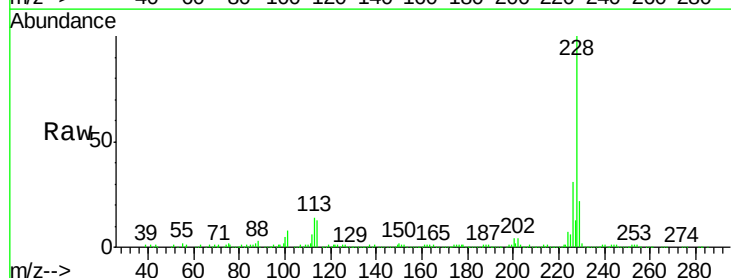
Tgt Ion:228 Resp: 256364

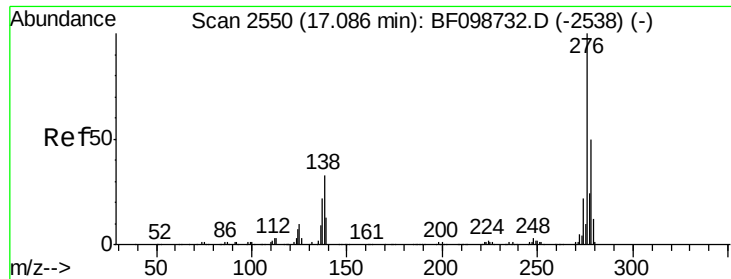
Ion Ratio Lower Upper

228 100

226 30.6 25.0 37.6

229 22.1 16.2 24.4

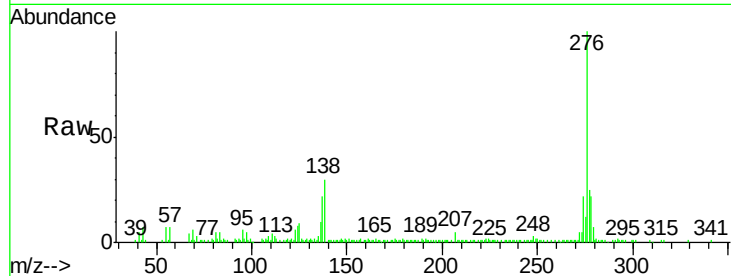




#85  
 Indeno(1,2,3-cd)pyrene  
 Concen: 13.36 ng  
 RT: 17.00 min Scan# 2535  
 Delta R.T. 0.01 min  
 Lab File: BF099323.D  
 Acq: 11 Oct 2017 2:05

Instrument :  
 BNA\_F  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 276     | 100   |       |       |
| 138     | 29.4  | 25.0  | 37.6  |
| 277     | 25.1  | 20.1  | 30.1  |

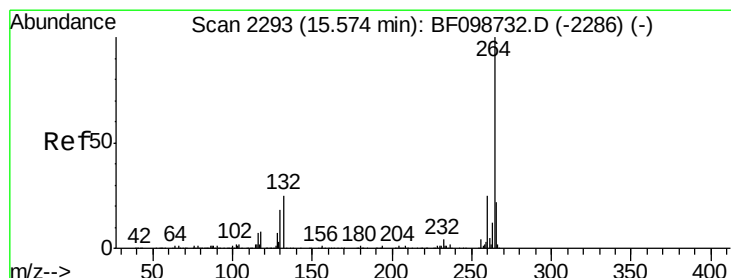
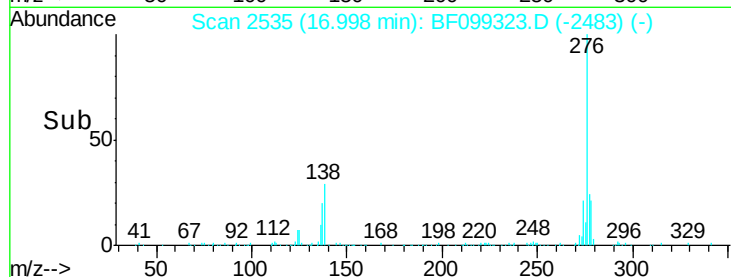
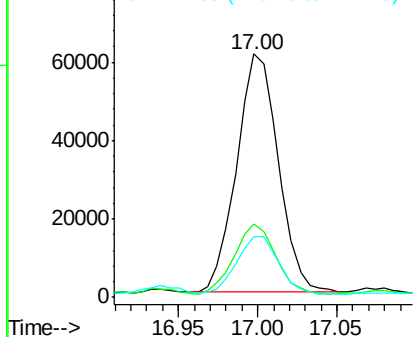


Abundance

Ion 276.00 (275.70 to 276.70): E

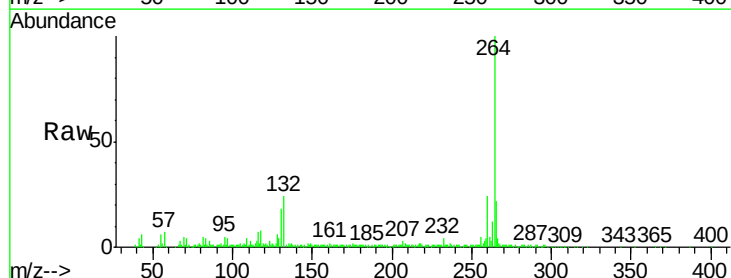
Ion 138.00 (137.70 to 138.70): E

Ion 277.00 (276.70 to 277.70): E



#86  
 Perylene-d12  
 Concen: 20.00 ng  
 RT: 15.51 min Scan# 2282  
 Delta R.T. 0.01 min  
 Lab File: BF099323.D  
 Acq: 11 Oct 2017 2:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 23.8  | 19.2  | 28.8  |
| 265     | 22.1  | 17.5  | 26.3  |

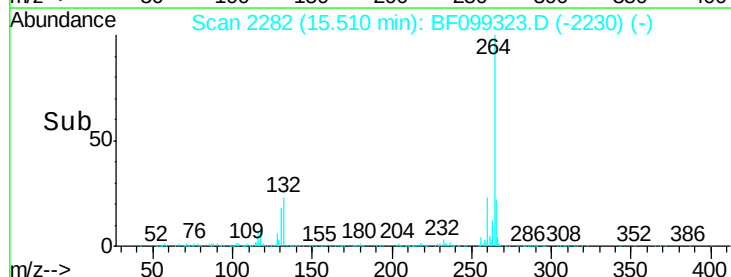
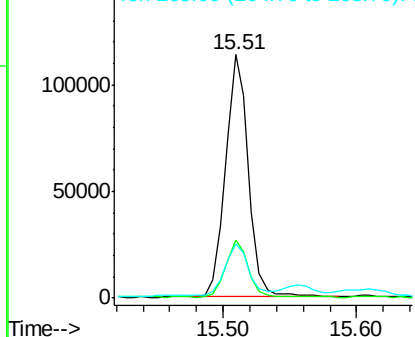


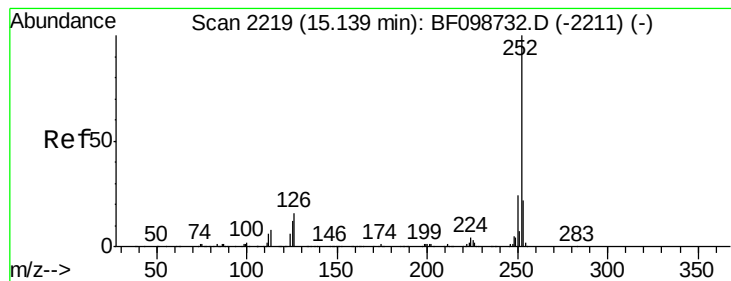
Abundance

Ion 264.00 (263.70 to 264.70): E

Ion 260.00 (259.70 to 260.70): E

Ion 265.00 (264.70 to 265.70): E





#87

Benzo(b)fluoranthene

Concen: 47.79 ng

RT: 15.08 min Scan# 2209

Delta R.T. 0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA\_F

ClientSampled :

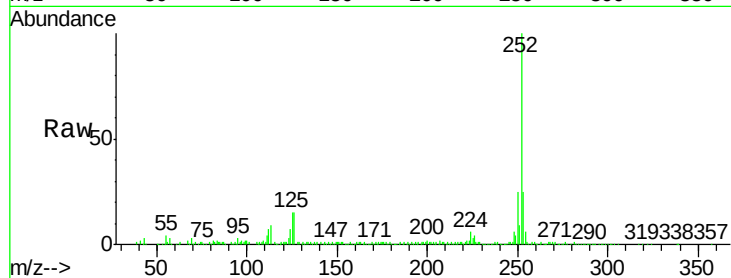
Tot Ion:252 Resp: 403340

Ion Ratio Lower Upper

252 100

253 24.5 17.0 25.6

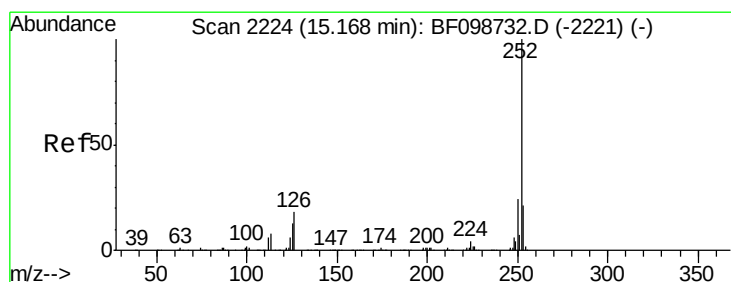
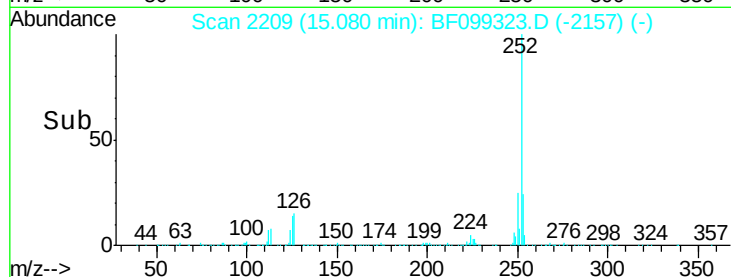
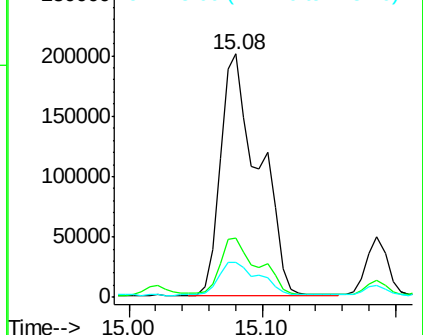
125 14.5 9.0 13.6#



Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E



#88

Benzo(k)fluoranthene

Concen: 48.39 ng

RT: 15.08 min Scan# 2209

Delta R.T. -0.03 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

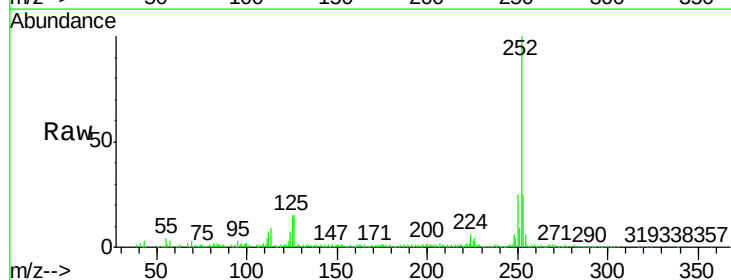
Tgt Ion:252 Resp: 403340

Ion Ratio Lower Upper

252 100

253 24.5 17.9 26.9

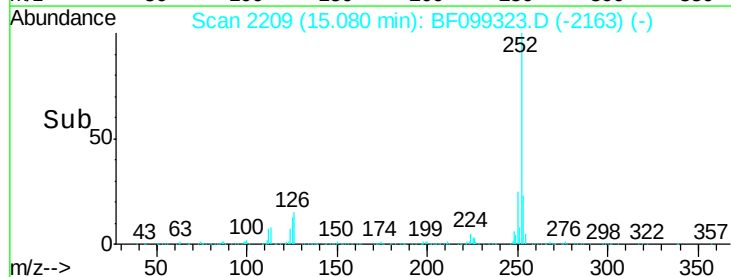
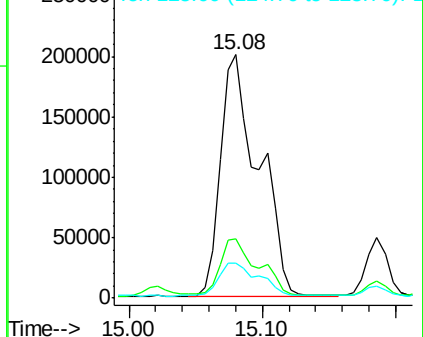
125 14.5 10.2 15.2

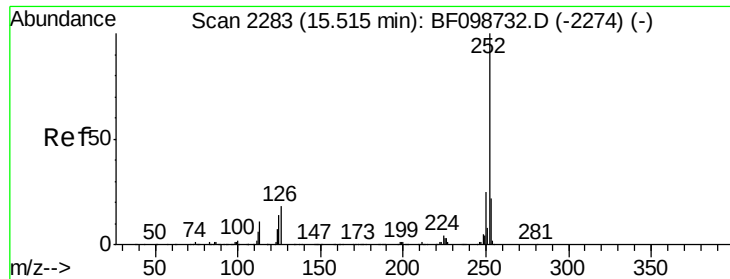


Abundance Ion 252.00 (251.70 to 252.70): E

Ion 253.00 (252.70 to 253.70): E

Ion 125.00 (124.70 to 125.70): E





#89

Benzo(a)pyrene

Concen: 27.84 ng

RT: 15.45 min Scan# 2272

Delta R.T. 0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA\_F

ClientSampled :

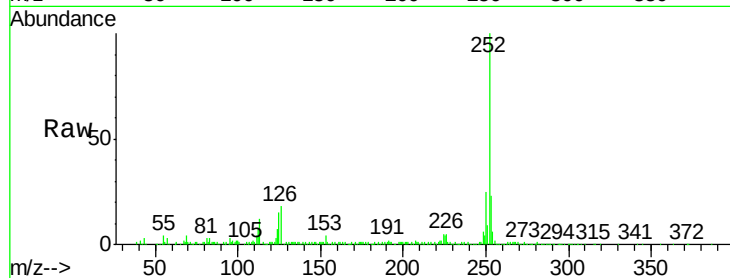
Tot Ion:252 Resp: 215671

Ion Ratio Lower Upper

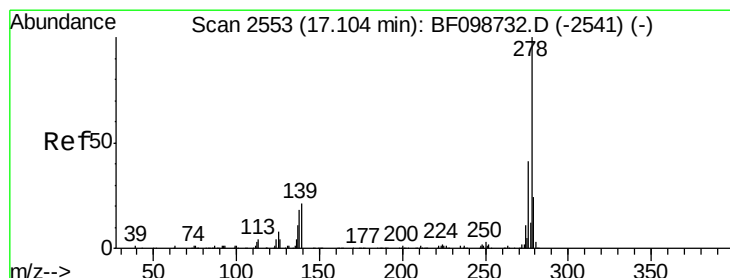
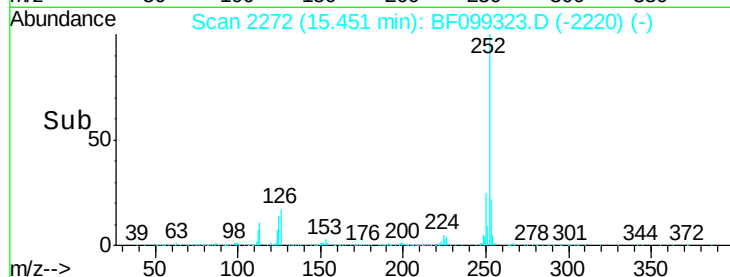
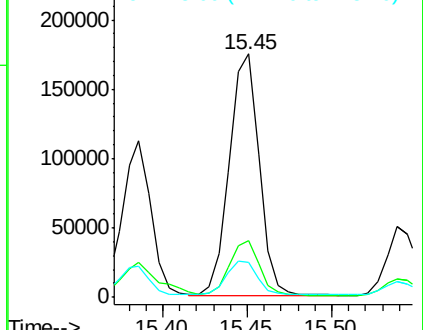
252 100

253 23.3 17.1 25.7

125 14.5 9.8 14.6



Abundance Ion 252.00 (251.70 to 252.70): E  
Ion 253.00 (252.70 to 253.70): E  
Ion 125.00 (124.70 to 125.70): E



#90

Dibenzo(a,h)anthracene

Concen: 3.90 ng

RT: 17.17 min Scan# 2565

Delta R.T. 0.16 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

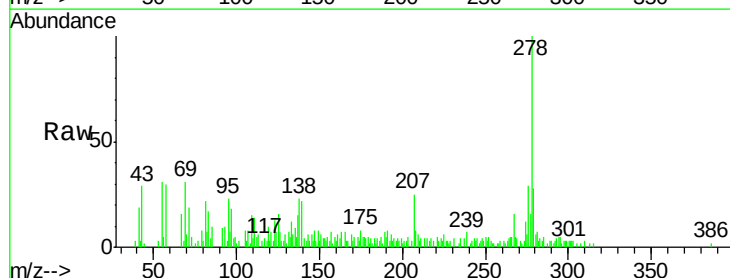
Tgt Ion:278 Resp: 24205

Ion Ratio Lower Upper

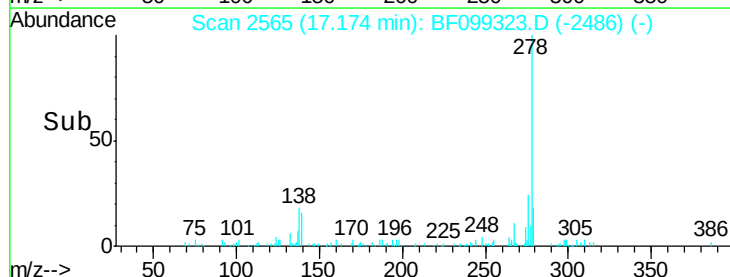
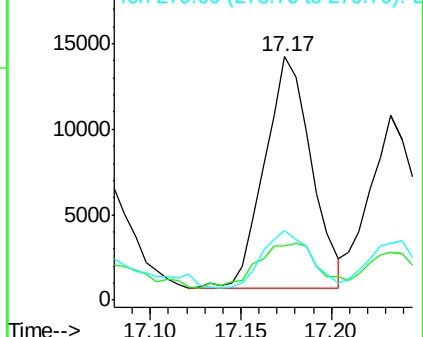
278 100

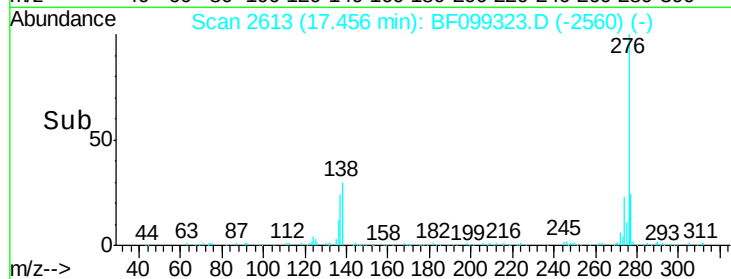
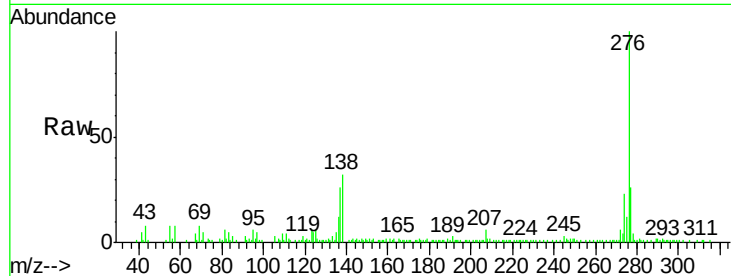
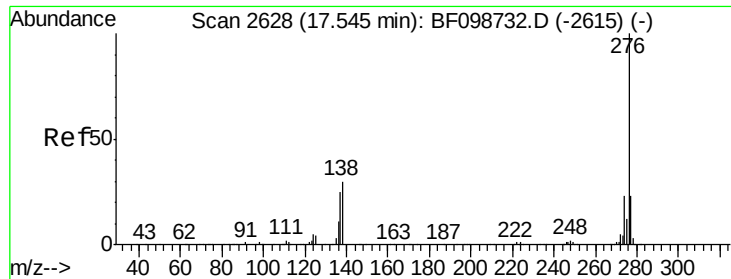
139 22.0 15.9 23.9

279 28.3 19.0 28.4



Abundance Ion 278.00 (277.70 to 278.70): E  
Ion 139.00 (138.70 to 139.70): E  
Ion 279.00 (278.70 to 279.70): E





#91

Benzo(a,h,i)perylene

Concen: 17.35 ng

RT: 17.46 min Scan# 2613

Delta R.T. 0.01 min

Lab File: BF099323.D

Acq: 11 Oct 2017 2:05

Instrument :

BNA\_F

ClientSampleId :

Tot Ion:276 Resp: 106299

Ion Ratio Lower Upper

276 100

277 25.6 17.9 26.9

138 31.6 21.8 32.8

